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Lt.-Col. W. P. C. TENISON, D.S.O.

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LT.-COL. W. P. C. TENISON, D.S.O.

[Russian literature by Professor A. I. Ivanov]

CONTENTS

I. TITLES	...	...	...	...	...	...	1
II. SUBJECT INDEX	...	...	...	...	...	...	55
III. DISTRIBUTION	...	...	...	...	...	...	59
IV. SYSTEMATIC INDEX	...	...	...	...	...	...	62

I.—TITLES

In the list of titles the year has been omitted where it is the same as the volume year of the "Record", namely (1959).

Opinion 550. Suppression under the Plenary Powers of the generic name *Taeniorhynchus* Lynch-Arribálzaga, 1891, for the purpose of protecting the generic name *Mansonia* Blanchard, 1901 (Class Insecta, Order Diptera) and matters relating to other names in the same Class and in the Class Aves incidental thereto. Opin. int. Comm. zool. Nom. **20** : 185–198.

Opinion 551. Suppression under the Plenary Powers of the specific name *musicus* Linnaeus, 1758, as published in the combination *Turdus musicus*, and validation under the same powers of a neotype for *Turdus iliacus* Linnaeus, 1758, the Eurasian Redwing. Opin. int. Comm. zool. Nom. **20** : 199–210 l pl.

Anon. Suffolk bird report for 1958. Trans. Suffolk Nats. Soc. **11** : 163–192.

Anon. (1). Operation Osprey—1959. Country-side N.S. **18** : 472–480 fig.

Anon. (2). Obituary—Ilmari Välikangas. Ornis fenn. **36** : 65 fig.

Anon. (3). The Percy Fitzpatrick Institute for African Ornithology. Ostrich **30** : 134–135 fig.

Anon. (4). Bristol bird report 1958. Proc. Bristol Nats. Soc. **29** : 433–456.

Abbott, J. M. A hybrid White-crowned × White-throated Sparrow. Wilson Bull. **71** : 282–283.

Abdullah, H. A new white-throated race of the babbler *Dumetia hyperythra*. J. Bombay nat. Hist. Soc. **56** : 333–335.

[Abiasov, N. A. & Iksanov, K. I.] New representative of the genus *Pelasiger* Dietz, 1905 from the Cormorant]. Trudy Inst. Zool. Parasitol. Akad. Nauk Kirghiz. S.S.R., Frunze **7** : 147–151. [In Russian].

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Affre, G. Le Plongeon arctique en Méditerranée. Oiseau **29** : 68.

VOL. 96

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Agárdi, E. My observations on the occurrence of the Indian Ring-Dove and the Syrian Woodpecker ; 346. Ornithological observations in the area of Harkany (S. Hungary) ; 361. Aquila **65**.

Ajola, G. Gli Uccelli dell'Isola di Ustica. Riv. Ital. Orn. **29** : 89–128 fig.

Alcris, A. Bird life at Lake Taupo. For. & Bird. No. 130 1958 : 10.

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Alleé, W. C. see Foreman, D.

Allen, F. G. H. Birds nesting on the Ginting Sempah. Malay. nat. J. **13** 1938 : 4–6.

71

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- Almond, W. E.** Great Tit stung to death by bees. Brit. Birds 52 : 314.
- Altner, H. & Reger, K.** Ornithologische Frühjahrsbeobachtungen auf Kreta. Anz. orn. Ges. Bayern 5 : 224-234 map.
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- Amadon, D. see Murphy, see Parkes.**
- Amanieu, M. & Lahargue, J.** Sur un canard à quatre pattes. P.V. Soc. linn. Bordeaux 96 [1956] : 65-70 figs.
- Amprino, R. & Camosso, M.** On the role of the "apical ridge" in the development of the chick embryo limb bud. Acta anat. 38 : 280-288 4 figs.
- Amer, F. I. see Al-Hussaini, A. H.**
- Amprino, R. & Camosso, M. (1).** Influenze del mesoderma sulla sviluppo di annessi cutanei nell'embrione di pollo. Atti Soc. ital. Anat. 19 1958 [1959] : 75-82.
- Ancel, P.** Recherche sur les relations entre l'effet létal et l'effet tératogène de la carence en oxygène chez l'embryon de poule. Acta anat. 38 : 147-159 fig.
- Ancel, P. (1).** Recherches sur les malformations déterminées par le refroidissement temporaire de l'oeuf de poule et compatibles avec la vie des poussins. J. Embryol. exp. Morph. 7 : 330-334.
- Andersen, F. S.** Bills, eggs and nests of captured Arctic Terns (*Sterna paradisea* Pont.) and Common Terns (*Sterna hirundo* L.). Dansk. Orn. Foren. Tidsskr. 53 : 84-102 figs.
- Anderson, A. H. & A.** Life history of the Cactus Wren. Part II : The beginning of nesting. Condor 61 : 186-205 figs.
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- Andrews, T. F. see Clarke, R. F.**
- André, J.** Un oiseau nouveau pour l'Auvergne : l'Aigrette garzette. Oiseau 29 : 63-65.
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- Anfinnsen, M. see Barth, E. K.**
- Antal, L. see Csornai, R.**
- Antoine, N. J.** Blue Tit feeding young Treecreepers. Brit. Birds 52 : 432-433 pl.
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- Arnhem, R.** Le fuligule Morillon, *Aythya fuligula* (L.) nicheur en Belgique. Gerfaut 49 : 43-51 pl.
- Arnold, J. W.** Observations on birds of the Mackenzie King Estate, Kingsmere, Quebec. Canad. Fld. Nat. 73 : 115-116.
- Arnould, M. & others.** Baguages, contrôles et reprises d'oiseaux migrateurs en Tunisie. Mem. Soc. Sci. nat. Tunis No. 4 : 1-105 figs.
- Arn-Willi, H. see Benz, E.**
- Arvola, A.** Über die Lautäußerungen und die Bedeutung der Lautsignale des erwachsenen Waldkauzes (*Strix aluco*) auf Grund experimenteller Untersuchungen. Ornis fenn. 36 : 10-20.
- Aschenborn, C.** Turkentauben (*Streptopelia decaocto*) in Bonn. Orn. Mitt. Stuttgart 11 : 192.
- Aschenbrenner, L. & Peters, H.** Gesang des Zwergfliegenschnäppers. Vogelwelt 80 : 122-123.
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- Ash, J. S.** An aberrant Red-legged Partridge from Gloucestershire. Bull. Brit. orn. Cl. 79 : 129-130.
- Askaner, T.** Observations on the breeding biology in the Coot (*Fulica atra*) [Summary]. Vår Fågelv. 18 : 285-310 figs.
- Assemacher, I.** La mue des oiseaux et son déterminisme endocrinien. Alauda 26 1958 : 241-289.
- Assemacher, I. see Benoit, J.**
- Attwell, R. I. G.** The African Skimmer *Rhynchos flavirostris* : population counts and breeding in the Nsefu Game Reserve. Ostrich 30 : 69-72.
- Auber, L.** The structure of feathers in Meropidae and its evolutionary significance. Proc. int. Congr. Zool. 15 : 452-455 5 figs.
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- Austin, O. L. see Kuroda, N.**
- Aveledo, H. see Ginés.**
- Avent, C. see Vernon, J. D. R.**

- Baan**, G. van der. Observations in the ecology of waders on tidal mud-flats. Country-side N.S. **18** : 410-422 figs.
- Baboss**, I. Numerical data of storks and other waterfowl in County of Szatmár in 1956. *Aquila* **65** : 365.
- Baan**, G. van der *see* Swennen, C.
- Bacelar**, A. Aves de Timor no Museu Bocage. Rev. portug. Zool. **1** 1958 : 363-384.
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- Bakus**, G. J. Observations on the life history of the Dipper in Montana. *Auk* **76** : 190-207 fig.
- Bakus**, G. J. (1). Territoriality, movements and population density of the Dipper in Montana. *Condor* **61** : 410-425 figs.
- Balen**, J. H. van. Over de voortplanting van de Grutto. *Limosa limosa* L. *Ardea* **47** : 76-86.
- Ballance**, D. K. & **Scott**, G. L. A winter census on the Wash. *Bird Study* **6** : 123-132 fig.
- Balsac**, H. H. de & **Mayaud**, N. Voyage de R. de Nayrois aux îles de la baie et du Banc d'Arguin. Un énigme éclairci. *Alauda* **27** : 144-147.
- Balsac**, H. H. de *see* Olier, A.
- Banks**, R. C. Development of nestling White-crowned Sparrows in Central Coastal California. *Condor* **61** : 96-109.
- Banks**, R. C. *see* Johnson, N. K.
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- Barloy**, J.-J. Le Serin Cini s'installe en Bretagne. *Penn ar Bed No.* **16** : 13-16 1 fig.
- Barney**, M. D. Red-tailed Hawk killing a lamb. *Condor* **61** : 157-158.
- Baron Geyr**, H. Vom Füttern der Gimpel (*Pyrrhula pyrrhula*): 57. Türkentauben in der Nordcifel. *Vogelwelt* **80** : 123-124.
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- Barriety**, L. (1). Capture de Gangas unitandes *Pterocles orientalis* dans les Basses-Pyrénées. *Oiseau* **29** : 162.
- Barth**, E. K. & **Anfinnsen**, M. Goshawk from Siberia in Norway. *Nytt Mag. Zool.* **8** : 53-55 2 figs.
- Barthel**, R. & **Creutz**, G. Verfrachtung von Heckenbraunellen (*Prunella modularis*). *Vogelwarte* **20** : 38-39.
- Bartholomew**, G. A. *see* Howell.
- Barthos**, G. Notes from County of Zala ; 341, 346. Migration of Jays ; 350. *Aquila* **65**.
- Bartkowiak**, S. Contributions to the biology of the Great Tit, *Parus major* (L.), during the breeding period. [Summary]. *Acta orn. Mus. zool. Polon.* **5** : 217-232 figs.
- Bartynowska**, J. *see* Fidelus, J.
- Bassini**, E. Inchiesta preliminare sulla uccellazione. *Ric. Zool. appl. Caccia* **29** 1958 : 1-125 pls. [Summary p. 123].
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- Bassouls**, G. & **Naurois**, R. de. Peuplement et nidification des grands rapaces dans les Pyrénées Orientales. *Oiseau* **29** : 218-220.
- Batcheler**, C. L. *see* Riney, T.
- Batchelor**, D. M. A checklist of the birds seen at Asahan, Malacca. Part II. *Malay. nat. J.* **13** 1958 : 14-30 5 figs.
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- Bauer**, K. Der Birkenzeisig (*Carduelis flammea cabaret*) Brutvogel in Niederbayern. *J. Orn.* **100** : 106.

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- Beardmore**, J. A. *see* Coch, F. G.
- Beaufort**, L. F. de [& others]. Annual Report of the Vogelrekstasjon for 1958. [Summary]. *Limosa* 32 : 87-107 figs.
- Bebak**, B. The histological background of fertility in an intergeneric cross. *Bull. Acad. polon. Sci. Sér. Sci. biol.* 7 : 371-375 pls.
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- Bell**, H. L. (2). Diversionary activity of the Sharp-tailed Sandpiper. *Emu* 59 : 148-149.
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- Beretzk**, P. (2). Regular breeding of Mediterranean Black-headed Gull near Szeged : 343. Breeding of Bee-eater : 348. Observed cases of birds' epidemics : 371. *Aquila* 65.

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II.—SUBJECT INDEX

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Owen, **Lloyd**, L. C.; A. V. Tåning, **Loppenthin**; J. T. Zimmer, **Murphy & Amador**; A. W. Boyd, **Nicholson**; J. P. Burkitt, **Rutledge**.

Portraits.—H. J. V. Sody, **Bemmell**; E. S. Hanks, **Hanks**; Dr. N. Taka-Tsukasa, **Kuroda** & others; J. T. Zimmer, **Koepcke** (1), **Murphy & Amador**; G. Kramer, **Lorenz**, K., **Stresemann**, E. (5); A. W. Boyd, **Nicholson**.

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Classification.—Weaver-birds, **Crook**; Weaverbird problems, **Moreau** (3); Use of leg-muscle formulae, **Berger**, A. J. (1); Position of the Dodo, **Lütsch-wager**; Recent trends, **Mayr**; Taxonomic concepts, **Cain**; Behaviour and natural selection, **Tinbergen** (4); Phylogeny of finches, **Mainardi** (1); Immunological distances among some Gallinaceous birds, **Mainardi** (3); Gulls, **Moynihan**; The nature of avian species, **Phillips**, A.; Species concept, **Rising**; Anatomy and taxonomy, **Starck**; Arrangement of songbird families, **Storer**; Value of Mallophaga, **Timmerman**, G.; Alciformes, **Verheyen** (3); Procellariiformes, **Verheyen** (2); Charadriiformes, **Verheyen** (1); Critical note, **Verheyen** (6), **Stresemann**, E.; Palearctic birds, **Vaurie**; Woodpeckers, **Vaurie** (1) (2) (3); Spermestidae, **Ziswiler**.

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Oology.—Colour of quail's egg, **Fumagalli**; In Japanese heronry, **Izumi**; Nightjars, **Marinkelle**; Hungarian notes, **Radetzky**; Egg-shell study, **Schmidt**, W. J.; Egg shell structures, **Schwarz & Fehse**; Egg-shell matrix study, **Simkiss & Tyler**; Egg shell abnormalities, **Tyler & Simkiss**.

Fossil Birds.—Schuiling Cave, California, **Downs**, T. & others; Note on penguins, **Gill** (1); Tertiary fauna of Belgium, **Missonne**; French discoveries, **Russell**; Penguin, **Gill**, **Simpson**; In Albert National Park, Congo, **Verheyen**; Lower Dnieper deposits, **Voinstvensky & Umanskaya**; North America Pleistocene, **Wetmore** (1).

STRUCTURE AND PHYSIOLOGY

General.—Studies of the bursa Fabricii, **Al-Hussain & Amer**; Adipose tissue of pigeon, **George & Eapen** (1); Salt excretion, **Hellmich**; Salt glands in marine birds, **McFarland**; Nasal glands, **Scothorne**; Salivary glands, **Tucker**, R.; Peculiarities of flying animals, **Korzhuyev & Koretskaya**; Comparative physiology (behaviour), **Lehrman** (1); Hormonal responses to external stimuli, **Lehrman** (2); Light and activity, **Moyat**; Comparative studies of the spleen, **Murata**; Climatic effects, **Saxena**; Counter-current exchange, **Scholander**; Brain changes in ducks under

domestication, **Senglaub**; Variability in patterns of avian serum proteins, **Sibley & Johnsgard** (1); Mechanism of eye-lids of fowl, **Simić & Jablan-Pantić**; Egg formation, **Sykes**; Sugar absorption, **Tilgner-Peter & Kalms**; Egg teeth, **Wetherbee**.

Cytology.—Chromosome study, **Brink**; Nerve cells, **Levinson**.

Osteology.—Skull pneumaticity in ducks, **Harrison**, J. G.; Skull of Dromaeognathous Birds, **Simonetta**.

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Teratology.—Duck with four legs, **Amanieu & Lahargue**; Partial albinism, **Larsson**; Double-tailed linnet, **Steinbacher**, J. (3); Albino grebes, **Weller**; Albinism, **Yeaman**.

Circulatory system.—Carotid body system, **De Kock**; Effect of irradiation of heart of embryo, **Le Douarin**.

Respiratory System.—Lungs, **Payne & King**.

Alimentary System.—Gross and microscopic anatomy of Buff-backed Heron, **Al-Hussaini & Ghorab**; Nerves, **Kollosov**.

Nerves and Sense Organs.—Oesophagus innervation, **Aleksandrova**; Development of retina, **Baffoni**; Study of eyes, **Duijn**; Pigeon's brain, **Guselnikov & Polyaniski**; Sound-signal preferences in ducks, **Klopfen** (4); Smell, **Michelsen**; Structure of brain in Passerine birds, **Nikitenko**; Acoustic orientation in a Swiftlet, **Novick**; Colour vision, **Peiponen** (1); Study of the forebrain of birds, **Stingelin, Haefelfinger**; Emu's eye, **Vrabec**.

Epithelial Structures.—Beaks of hornbills and toucans, **Ludicke**; Changes under arctic conditions, **Madsen & Wingstrand**; Tarsal scutellation of songbirds as a taxonomic character, **Rand**; Effects of high air temperature on growth, **West**.

Plumage and Moulting.—Endocrines and moulting, **Assenmacher**; Feathers of Bee-eaters, **Auber**; Feather structure, **Becker**; Study approach, **Humphrey & Parkes**; Sulphur deposits, **Ludicke**; Keratin of bird feathers, **Razumova & others**; Experiments on development, **Rowles**; Water-proofness of feathers, **Rutschke**; Feathers of water-birds, **Rutschke** (1); Flight moult in Blackbird, **Tautenhahn**; Moult, **Verheyen** (4) (5); Natal pterylosis of various spp., **Wetherbee** (1).

Body Temperatures.—Young terns and night-hawks, **Howell**; Heat exchange, **Shilova**.

Growth and Weight.—White-crowned Sparrow nestlings, **Banks**; Young Lapwings, **Heim**; Growth rates, **Kramer** (2).

Endocrinology.—Hormones, **Abrahám & Stammer**; Uropygial gland, **Das & Ghosh**; Thyroid experiments, **Kobayashi & Tanabe**; Changes in thyroid, **Makamura**; Of migratory birds, **Nakamura**.

Experimental Biology.—Response to light increments by equatorial Sparrows, **Miller**, A. H.; Thyroid, **Pflugfelder**; Androgen injected Turkeys, **Schein & Hale**; Irradiation effects in pigeon, **Shaw & Vermund**; Energy metabolism, **Thybusch**; Nest-building induced by injections, **Warren & Hinde**; Effect of pituitary extracts on blood pressure, **Wooley**.

Biochemistry.—Bile salts of King Penguin, **Anderson**, I. G., **Haslewood & Wootton**; Enzymes in adipose tissue, **George & Eapen**; Liver lipids in hummingbirds, **Hartman & Brownell**; Staining methods, **Kawasaki**; Soluble citrate during egg laying, **Lehman & others**; Egg proteins, **Sibley & Johnsgard**.

DEVELOPMENT

General.—Uropygial gland in duck, **Gomat** (2); Growth of birds' limbs, **Wolff**.

Embryology.—**Amprine & Camosso**; **Barasa & Bergquist**; **Camosso & others**; **Capurro & others**; **Franceschini**; **Lemez & Rychter**; **Rychter & Lemez**; Hatching ferments, **Buznikov & Ignat'eva**; Limb development, **Bell**, E., **Saunders & Zwilling**; Neural tissue studied by electron microscopy, **Bellairs**; Arginase activity, **Ceska & Fisher**; Viteline production organ, **Clavert**; Bilateral symmetry in eggs, **Clavert** (1); Pigment cell system, **Cohen**, J.; Development of cornea in chick, **Meyer & O'Rahilly**; Fixation method, **Czopek**; Synchronism in development, **Eremeev**; Development of chick, **Fraser**, R. C., **Harrison**, J. R.; Arginase activity, **Goldie**; Neuroblast, **Hamburger**, **Bellairs** (1); Parathyroid, **Dossal**; Transformation capacity of eye layers, **Lopashov**; Hepatic cells of chick embryo, **Lövlie**; Lens induction in chick embryo, **McKeehan**; Mitotic complex of chick embryos, **Mookerjee & Begum**; Chick blastoderm, **New**; Structure of yolk, **Schlesinger**; Feather and skin colour, **Sengel**; Skull growth, **Slaby**; Nutrient necessities, **Spratt**; Immunity of embryos, **Tokin**.

Experimental Embryology.—**Ebert, Gomot & Lutz**; **Stephan**; **Teresaki**; Effects of freezing, **Ancel**; Protein accumulation, **Britt & Herrmann**; Wolff's canal, **Calame**; Inhibition of differentiation, **Clarke & McCallion**; Insulin experiments, **Erhard**; Effect of X-rays on developing feathers, **Espinase**; Attempt to evoke plumage changes, **Fidelus & Bartynowska**; Preen gland in duck, **Gomot**; Parthenogenesis in turkey eggs, **Haney & Olsen**; Plumage experiments with duck embryos, **Koecke**; Effect of X-rays on heart, **Le Douarin**; Malformations, **Horca & others**; With egg, **McCallion & Clarke**; Effect of gamma rays, **Marin**; Functional development of eye, **Peters & others**; Effects of colchicine, **Overton**; Kidneys, **Overton** (1); Development of eye, **Reinbold**; Skull morphogenesis, **Schowling**; Cranial morphogenesis, **Schowling** (1); Somite grafts of chick blastoderm, **Seno & Büyükközer**; Chimaeric duck, **Seno & Saito**.

SEX AND GENETICS

General.—Sexual differences in size, **Amadon** (2); Sexual cycles of vertebrates, **Fraser**; Behaviour note, **Griffin**; Sex chromation, **Kosin & Ishizaki**; Free-Martin in birds, **Lutz & Lutz-Ostertag**; Sex-inversion in pheasants, **Sordi**.

Sexual Periodicity.—Effect of light, **Farner**; Experiments with doves, **Lehrman** (3); Action of light, **Leroy**; Internal and environmental control of breeding, **Marshall**, A. J.; Experiments on finches, **Shank**; Action of light, **Vaughien**; Experiments, **Wolfson** (1) (2).

Hybrids.—Natural hybridization, **Kalela**; Parental instincts in sterile hybrid pigeon, **Mainardi** (2); Anatomico-histological investigations, **Malinowska**; Study, **Podhaadsky**; Taxonomic and evolutionary

implications, **Sibley**; White-crowned \times White-throated Sparrow, **Abbott**; Ducks, **Blotzheim**, **Sutter**; Thrushes, **Dilger**; Wigeon \times Shoveler, **Harrison**, J. M. (2); Pintail \times Green-winged Teal, **Howell** (2); Goldeneye Ducks, **Jackson**, M. F.; Macaw, **Lang** & **Stamm**; Stilt, **Lint**; Parrots, **Lukaszewicz** (1); Flycatcher, **Müller**; Stock Dove \times Pigeon, **Tomek**.

Genetics.—Intergeneric cross fertility, **Bebak**; Antigens in lens development, **Langman**; New mutations in chromosome group of Muscovy Duck, **Taibel**.

HABITS AND ECOLOGY

General Problems.—Preadaptations, **Bock** (1); Composition of goose populations, **Boyd**, H.; Birds and their biotope, **Corti** (2); Habitat selection, **Hinde** (4); Breeding wastage, **Hudde**; Importance of juvenile cannibalism in breeding biology of birds of prey, **Ingram**; Popular description of arctic life, **Koranda**; Rhythm and behaviour of birds in Arctic darkness, **Lehtonen**; Salt excretion in marine birds, **Matthews**, L. H.; Dispersal, migration, longevity and death causes of certain Swedish birds, **Olsson**; Dispersal of fresh-water algae by migratory birds, **Proctor**; Factors in regulation of populations, **Ratcliffe**; An activity cage recorder for domestic fowl, **Ratner** & **Ringer**; An automatic nest-recorder, **Royama**; Anatomy and progression in Water Rail, Moorhen and Coot, **Sigmund**; Mortality and population control, **Southern**, H. N.; Influence of human activity, **Spangenberg** & **Leonovich**; Role of animals in primary soil formation, **Syrochekovsky**; Adaptation to environment, **Verheyen** (8); Holarctic breeding distribution, **Vous**; Time-lapse photography and diurnal rhythms, **Wood-Gush**; Population control through social behaviour, **Wynne-Edwards**.

General Habits : Single Species.—Flamingo, **Allen**, R. P.; Toucans, **Boetticher**; Semicollared Flycatcher, **Curio**; Game birds in winter Altai mountains, **Dul'keit**; Peregrine in N. Yakutia, **Egorov**; Eagle-owl in Yakutia, **Egorov** & **Labutin**; Mallee Fowl, **Frith**; White Stork, **Golodushko** (1); Button Quail, **Hoesch** (1); Piloted Woodpecker, **Kilham** (3); Snow-cock in N. Caucasus, **Kotov**; Estrildine Finches, **Kunkel**; Greater Snow Goose, **Lemieux**; Black Tern in Volga delta, **Lugovoi**; Larks in Turkestan, **Meklenburgsev**; Purple Heron, **Oleinikov** & **Danilova**; Oregon Junco, **Sabine**; Waterfowl on Zaisan lake, **Samusev**; Woodpeckers, **Sielmann**; Groove-billed Ani, **Skutch** (3); Blackbird, **Snow**; Least Tern, **Tomkins**; Hummingbird, **Wagner**; Buzzard, **Wenzel**.

Psychology.—Parent-young relationship in duck, **Alden**; Physiological state and instinct, **Benoit**; Species recognition in Aix, **Dilger** & **Johnsgard**; Imprinting in domestic fowl chicks, **Guiton**; Innate behaviour patterns as indicators of the "Critical Period", **Hess** & **Schaefer**; Behaviour and speciation, **Hinde**; Motivation of behaviour, **Hinde** (3); Experiments on importance of colour with Zebra Finch, **Immelmann**; Discrimination experiments, **Klopfer**; Feeding behaviour, **Klopfer** (1); An analysis of learning in young ducks and geese, **Klopfer** (3); Clarifying some controversial notions, **Kortland**; Hierarchy amongst gulls, **Labitte** (1); Problem of instinct, **Lehrman**; Behaviour studies, **Lind** (2); Counting experiments with a parrot, **Löglér**; Evolution of behaviour, **Lorenz**, K. Z.; Delayed reactions in owl, **Macura**; Pattern preference, **Rensch**; Incidence of following

response in domestic chicks, **Salzen** & **Sluckin**; Colour preferences, **Schaefer** & **Hess**; Learning, **Thorpe** (3).

Territorial Habits.—Evolution note, **Andre-wartha**; Ovenbird, **Stenger** & **Falls**.

Courtship and Display.—Satin Bower-bird, **Chaffer**; Goldeneye, **Dane**, **Walcott** & **Drury**; Bowerbirds, **Gilliard**, (3); Manakin, **Gilliard** (5); Hostile behaviour of gulls, **Moynihan** (1); In Diving Ducks, **Myres** (1); Manakins, Sick (2); Gulls, **Tinbergen** (1); Studies of origins, **Tinbergen** (5).

Voice and Song.—Singing pattern of Chaffinch, **Barber**; Rhythm of pigeon calls, **Bettman**; Rufous-sided Towhee, **Borrer**; Chipping Sparrow, **Borrer** (1); Acoustics of Corvidae, **Gramet**; Moustached Warbler, **Groebels** (1); Convergence of passerine alarm calls, **Hallman** (4); Lyrebird, **Halaloff** (1); In arctic summer, **Hoffmann**, K.; Chaffinch and Greenfinch, **Hulme**; Stimulation of a thaw, **Petzmeyer** (1); Song learning in canary, **Poulsen**, H.; Mechanical recording, **Saunders** (1); Grasshopper Sparrow, **Smith**, R. L.; Thrush-nightingale, **Stadler**, H.; Vocal apparatus of talking birds, **Thorpe** (1).

Miscellaneous Habits.—Cock fighting, **Baeumer**; "Anting" and playing with fire, **Burton**, M.; Stance of domestic hens in contests, **Foreman** & **Allee**; Anting by Japanese Thrush, **Fushihara**; Flight preening, **Goodwin**, R. E.; Head-scratching, **Hallman** (6); Ducks avoid oil patches, **Hainard**; Torpidity, **Howell** & **Bartholomew**, **French** & **Hedges**; Flocking behaviour, **Kuroda** (3); "Anting" by woodpecker, **Meier**; Variation in head-scratching, **Nice** & **Schantz** (1); Sparrows and feral parakeet, **Robinson**; Ducks in ice, **Schmidt**, G.; Anting movements, **Simmons**, K. E. L.

Food Habits : General.—In English dense oak-wood, **Beven**; Wild birds and coloured grain, **Bodensteiner**; Pittosporum seeds, **Cooper**; Caddis flies, **Crichton**; Food preference, **Dunckel**; Yugoslavian stomach contents, **Kovacević** & **Danon**; Sap-drinking, **Myline**; Do birds eat fungi scratched out of the soil? **Szemere**.

Food Habits : Single species.—Ibis in Australia, **Carrick**; Eagle Owl in S.E. Yakutia, **Egorov** & **Perfil'ev**; Black Redstart, **Erard** (1); Lesser Spotted Eagle and Common Buzzard, **Golodushko**; Pelicans, **Gunter**; Swallows, **Hertig** (1); Jay, **Kohl** (1); Eagle Owl, **Martirosyan**; Ducks and geese, **Matthews**, **Olney**; Foot-stirring in Herons, **Meyerrick**; Ravens and crows, **Turner**.

Nidification : General.—Popular note, **Armstrong**; Nesting in nests of social insects, **Hindwood**; In intense sunshine, **Hoesch**; Birds unusual for nest-boxes, **Likhachev**; Nest sanitation experiments, **Peiponen**.

Nidification : Single species.—Reaction of tits to nest experiments, **Bösiger** & **Lecomte**; House Martin in Lancashire, **Bouldin**; Nest construction by West African tit, **Dekeyser** & **Derivot**; Purple Sunbird, **George**, J.; Experiments with canaries, **Hinde** & **Warren**; Crows, **Rustamov** & **Mustafaev**.

Nidification : Regional studies.—Northern Rhodesia, **Benson** & **Pitman**; Photographs in Northern Rhodesia, **Bottomley**; Colorado, **Brands** (1); Val Parma, Italy, **Crestvolant**; Early British breeding, 1957, **Goodacre** & **Lack**; Netherlands, **Hellebrekers**; Sonoran Desert, Arizona, **Hensley**; Pennsylvania salt-

marsh, **Jones** ; House Sparrow in Moscow, **Il'enko** ; Colonial breeding birds, **Kuzyakin** ; Forest Passerine birds, **Malochevski** ; Eastern Nigeria and British Southern Cameroons, **Serie** (3) ; Birds of prey and owls, Badkhyz, **Sukhinin** (1) ; Wagtails, Redstarts, Warblers in Tian-Shan, **Stepanyan** (1) ; Mexico, **Wagner** (1).

Brood Parasitism.—Prolactin in Cowbirds pituitary, **Höhn** ; Cuckoos, **Hanks** ; Emerald Cuckoo fostered by Sunbird, **Ryves** ; In Redhead Duck, **Weller** (1).

Incubation and Fledging Periods.—Incubation behaviour, **Baerends** ; An apparatus for recording nest-visits, **Pakhanen** ; Spurwing Goose, **Prozesky** (1) ; Auto-cinematic device for recording nest visits, **Royama** (3).

Flight.—Function of rectrices in pigeons, **Fisher**, H. I. ; Flight characters of Spoonbill and Glossy Ibis, **Kokshaiski** ; Allometry of bird flight, **Meunier** ; Aerodynamics of small birds, **Oehme** ; German reviews, **Strave, Steinbacher** ; In formation at great height, **Svirkson** ; With open beak, **Westernhagen** ; Work output, **Willke**.

Homing and Orientation.—Pigeon homing experiments, **Graue & Pratt** ; Pigeon experiments, **Hoffmann**, K. (1), **Kramer & others** ; Oversea flights, **Kramer** ; Astronomical orientation, **Pardi** ; Celestial navigation, **Sauer**, E. G. F. ; Pigeon problems, **Schreiber & others** ; Inborn navigational device, **Stewart**, O. J. ; German pigeon experiments, **Wallraff** ; Morphological selection of carrier pigeon, **Valcarce** ; In unknown country, **Verwey** (2).

Migration : General.—Transmigrants, **Blake**, C. H. ; Historical background, **Cooke** ; Bird observations, **Cornwallis** (1) ; Physiological aspects, **Curry-Lindahl** ; Winter invasions, **Dickerman** ; Landbirds on board ship, **Fischer** ; The loss of water in wind drifted migratory birds, **Eliassen & Hjelmstedt** ; An audio technique for study at night, **Graber & Cochran** ; Study by radar, **Harper** ; Sparrow weight and fat before and after a night of migration, **Helms** ; Orientation over the sea in fog, **King**, J. M. B. ; Shape of wings theory, **Koops** ; Recent experiments, **Kramer** (1) ; A zoogeographical aspect, **Kumari** ; Watching by radar, **Lack** (1), (3) ; Across the sea, **Lack** (4) ; Breeding distribution of North America migrants, **MacArthur** ; Physiological research, **Merkel** ; Transatlantic waders, **Nisbet** ; Calculation of flight directions observed crossing the moon, **Nisbet** (3) ; Thyroid cycle, **Oakeson & Lilley** ; Sources of error in bird-ring studies, **Phillips**, A. R. ; Rumanian text-book, **Rudescu** ; Yearly rhythm, **Schildmacher** (1) ; Ringing progress and prospects, **Spencer**, R. (1) ; Cerebellar physiology, **Schreiber & others** (1) ; History of British studies, **Thomson**, A. L. ; Orientation in migrating marine animals, **Verwey** ; Celestial orientation, **Verwey** (1) ; Role of light, **Wolfson** ; Role of light in photoperiodic responses, **Wolfson** (3).

Migration : Single species.—Oystercatcher, **Andrew**, D. G. ; Quail near Tashkent, **Mekemburtsav** (1) ; Geese, **Schildmacher**.

Migration : Regional Observations.—Kursk region, **Alekseev** ; Narragansett Bay, R.I., **Baird & Nisbet** ; Netherlands, **Beaufort & others** ; Middle East, **Bourne** ; Lengeog, Bavaria, **Breuer** ; British winter visitors, **Cornwallis**, **Goodacre** ; Belgium, **Dambiermont, Rappe** (1) ; Italy, **Favero, Valentini** ; E. Transbaikal, **Gavrin & Rakov** ; Swiss

Alps, **Géroudet, Vuilleumier** ; Valassaret I., Gulf of Bothnia, **Hildén** ; Cape Shiriya, Japan, **Ishizawa** ; Western approaches, **McLean & Williamson** ; Note on far East migrations, **McClure** ; Problems of migration across Morocco, **Moreau** ; N.E. Norfolk, **Murton** ; Norwegian study, **Myrberget** ; Ithaca, N.Y., **Nisbet** (2) ; Denmark, **Rosenberg** ; Khanaqin, Iraq, **Sage** (1) ; Eastern Iraq, **Sage** (3) ; Waterfowl on Zaisan lake, **Samusev** (1) ; Southwest African experiments, **Sauer**, F. & E. ; 40 years in Connecticut, **Saunders** ; N.W. coast of Africa, **Sick** (5) ; Estonia, **Thomson**, E. ; Falsterbo, Sweden, **Ulfstrand** (1) ; Waterfowl hibernation on Sea of Azov and Black Sea, **Uspenski & others** ; Switzerland **Willi** (1), **Willi & Leuthold** ; September drift-movements in Great Britain, **Williamson**, K. (2).

Bird-Ringing : Methods.—Bal-chatri trap for birds of prey, **Berger**, D. D. & **Mueller** ; A method for opening nesting holes, **Erskine** ; Nylon nets, **Holtman & others** ; Colour marking of geese, **Kozlik & others** ; Mist nets, **Kuyava** ; Swedish trap for small birds, **Lindberg** ; Trapping of geese, **Spangenberg & Leonovich** ; At Point Pelee, Ontario, **Woodford**.

Bird-Ringing : Results.—Tunisia, **Arnould & others** ; U.S.A. Atlantic coast, **Baird, Bagg, Nisbet & Robbins** ; Australia, **Carrick, Hitchcock & Carrick** ; Sweden, **Danielsson** ; Wigeon in Europe, **Donker** ; Sweden, **Fontaine** ; Camargue, **Hoffmann**, L. (2) ; Norway, **Holgersen** (1) ; Giant Petrels, **Ingham** ; Estonia, **Iygi** ; Tartu, Estonia, **Jogi** ; Minnesota, **Johnson**, C. M. & **Strnad** ; Netherlands, **Kate & Taapken** ; Game-bird marking in Finland, **Koskimies & Rajala** (1) ; Yugoslavia, **Kroneisl-Rucner** ; Great Britain, **Leach, Spencer, R.** ; France, **Lucas** ; Finistère, **Maillet & Julien** ; Warblers at Knaresborough Sewage Farm, **Mather** ; Finland, **Nordström** (1) ; Morocco, **Panouse & others** ; Greenland, **Salomonson** (1) ; Switzerland, **Schifferli** ; West Africa, **Sharland & Harris** ; Waterfowl in U.S.S.R., **Shevareva** ; Ibises and Herons in U.S.S.R., **Skokova** ; Poland, **Szczepski** ; Netherlands, **Taapken** ; Brent Goose, in U.S.S.R., **Uspenski**, S. M. ; Belgium, **Verheyen** (9) ; South Africa, **Vincent**.

Ecology : Regional Studies.—Tidal flats, **Baan** ; Finland study, **Bergman** ; Breeding birds of open-cast mining area, **Brewer** ; South African estuaries, **Broekhuysen & Taylor** ; Deltas, **Bruijns** (4) ; Texas scrub desert, **Dixon** ; St. Lawrence I., Alaska, **Fay & Cade** ; New Zealand sand country, **Falla** ; New Zealand sea-bird colonies, **Gillham**, M. E. ; Fishponds in Hungary, **Horváth** ; Gravel and birds, **Key** (1) ; Bihar mountains, Hungary, **Korodi Gál** ; Oak forests in forest-steppe zone, **Novikov** ; Effect of forest fire in New Zealand, **Riney & Batcheler** ; Belgium, **Ruwet** ; Sea colonial birds, **Uspenski**, S. M. (1) ; Spanish steppes, **Valverde** (1) ; Valley of Chu river, **Yanushhevich & Fedyanina** ; Kyzylkum desert, **Zakhidov**.

Population Studies.—Winter census on the Wash, **Ballance & Scott**, G. L. ; Census from trains, **Bruijns** (1) ; Waterfowl in Europe, **Burckhardt** ; Dinamics study, **Deramond** ; In German industrial town, **Erz** ; Swiss water-birds, **Géroudet** (4) ; Great Crested Grebe, **Hollom** ; Winter bird census in Finland, **Koskimies & Rejala** ; Methods, **Linkola** ; Assessment at sea, **Mercer** ; A Japanese study, **Royama** (2) ; A sanctuary in Illinois, **Stine** ; Hummingbirds, **Van Riper** ; High-level woodlands, **Yapp**.

Conservation.—British bird protection, **Barclay-Smith** ; Bird-catching in Italy, **Bassini** ; French

Oceania, **Berlioz** (6) ; Insecticide poisoning, **Bernard** ; Saxony, **Berndt & Merker** ; Storks in Alsace, **Bloesch** ; South Australia, **Boehm** (1) ; Wildfowl in Netherlands, **Braaksma & Bruyns** ; Oil menace on Dutch coasts, **Bruyns** (3) ; Falcons, **Brüll** ; United States of America, **Butcher** ; Birds of prey in France, **Dambiermont** (1) ; Vanishing birds of India, **Daniel** ; Oil pollution, **Dennis** ; Rest places for migrants, **Duve** ; Text-book, **Gabrielson** ; Artificial nests for swallows and swifts, **George**, J. (1) ; Disappearing species, **Gerlach** ; Saxony, **Hahn** ; Game birds in Denmark, **Hammer & others** ; Effect of pesticides, **Harmsen & others** ; American Bird Protection, **Kalmbach** ; Flushing bars to reduce mortality of pheasants in hayfields, **Klonglun, Robbins & Ridley** ; New York State, **Levine** ; Bird netting in Japan, **McClure** ; Nesting boxes in Polish forests, **Makowicz & Sokolowski** ; Nesting encouragement in Estonia, **Masing & Laasimer** ; Sea birds, **Meise** ; Waterfowl in U.S.A., **Morgan** ; Waterbirds in New Zealand, **Newcombe** ; Protection of birds of prey, **Olivier** (4) ; Black-headed Gulls and Terns, **Rooth** ; South African reserves, **Rudebeck** ; Coot-waterfowl relations on Utah marshes, **Ryder** (1) ; Northern India, **St. Croix** ; Indonesia, **Setyodihwir** ; Hungary, **Vertse** ; Kenya live bird trade, **Williams**, J.

Economics.—Pollen carried by migrants, **Ash** ; Russian useful birds protection, **Blagoshoklonov** ; Bird protection and pest control, **Boettger** ; Importance of pigeons in towns, **Brunn** (1) ; Birds as dangers to aircraft, **Brunn** (8) ; Edible-nest collecting, **Chein Hoe, Sims** ; Crow trap, **Dungan** ; Birds and pests of beet, **Fedorenko** ; Birds and forestry, **Grimshaw & others** ; Decline of Red Grouse, **Jenkins**, D. ; Value of bird protection against *Tortrix*, **Keil** ; Raptorial birds and rodents in steppe, **Kubantsev** ; Breeding selection, **Kushner** ; Birds of prey, N. Yakutia, **Labutin** ; Goosander predation, **Lindroth, Lindroth & Bergström** ; Eagles and lambs on Lewis, **Lockie & Stephen** ; Argentinian guano islands, **Lopez** ; Starling plague, **Manzoni** ; Australian wild ducks as mosquito predators, **Marks & Lavery** ; Gulls and spawning salmon, **Mossman** ; Peru guano islands, **Murphy** ; Destruction of Gypsy Moth by birds, **Naumov** ; Results of pheasant rearing in Denmark, **Palundan** ; Control of pigeons in Hamburg, **Reinke** ; Edible birds' nests, **Sims** (1) ; Fish-eating birds, Ukraine, **Smogorzhevski** ; Sparrow control in Hungary, **Stegman** ; Insecticide poisoning, **Sterbetz** (2) ; Principles of biological control, **Sweetman** ; Mining moth control by birds, **Szöcs** ; Harmful birds in Chile, **Valenzuela** ; Forestry avifauna in Korea, **Won & Woo** (1).

Introduction and Naturalization.—Hand-reared Mallard in Canada, **Boyer** ; British Columbia, **Carl & Guiguet** ; In Britain, **Fitter** (1) ; In Western Australia, **Jenkins**, C. F. H. ; European starling in California, **Reuther** (1), **Rainey & others** ; House Sparrow in Brazil, **Sick** (9) ; Birds in steppe regions, **Uspenski & Treus** ; House Sparrow in Mexico, **Wagner** (2).

Agriculture.—Antwerp Zoo, **Berg, Carpenter** ; Bird hunting in Trinidad, **Conway** (1) ; Albatrosses, **Frings** ; Waders, **Frisch** (1), **Hoesch** ; Paris zoo, **Nouvel & others** ; Immunization of pheasants against botulism, **Rosen** ; Wildfowl Trust collection, **Scott & Boyd** ; Lovebirds and parrotlets, **Vane** ; Colour feeding of carotenoids, **Wackernagel**.

Longevity.—**Crouzaz** ; House Sparrow 13 years old, **Dexter** ; In injured Scrub Jay, **Haderlie** ; Heron 24 years old, **Viré**.

Parasites.—New species of *Petasiger* from Cormorant, **Ablasov & Iksanov** ; Parasites of Waders, **Belopol'skaya** ; Nematodes, **Belopol'skaya** ; Chat parasitised by tick, **Bleitz** ; Mites and fleas, **Butenko** ; Fleas from nests, **George**, R. S. ; Waders, Waterfowl and Shorebirds in Kaliningrad region, **Golikova** ; Helminths of White-tailed Eagle, **Golovin** ; Trematoda of waterfowl, **Gubanov & Ryzhikov** ; Checklist and bibliography of insects in birds' nests, **Hicks** ; Argasidae ticks on desert birds, **Ismagilov & Ushakova** (1) ; In ducks, **Lapage, Soulsby** ; Destroying swallow broods, **Mester** (2) ; Invertebrates in nests of Prairie Warbler, **Nolan** ; Blow flies, **Nuorteva** ; Living nematodes within hen's eggs, **Parkes** (2) ; Helminths of fish-eating birds, **Shigin** ; Gnats, **Shilova & Troitski** ; Dynamics of parasitic fauna of Chaffinch, **Sokolov**.

Enemies and Defence.—Gulls attacking migrants, **Colston & others, Hobbs** ; Hummingbirds attacked by wasps, **Grant**, J. ; Fights at nesting-boxes, **Hansson** ; Nesting Woodpeckers and snakes, **Kilham** (4) ; Frogs and fledglings, **Nordström** (2) ; Jay killed by weasel, **Perrins** ; Goshawk and pigeons, **Pielowski** ; Pigeons and Jackdaws, **Psenner** ; Migrant passerines attacked by gulls, **Rushforth** ; Woodpecker rivalry, **Schwab & Monnie** ; Hawks fighting, **Wikowski** (2).

Pathology and Disease.—Egyptianellosis, **Bassini** (1) ; Isolation of *Aspergillus*, **Beer** ; Hungarian epidemics, **Beretzk** (2) ; Pigeons in towns, **Brunn** (5) ; Tuberculosis loss of tocs, **Harrison, J. G. & Hay** ; English wild birds, **Jennings** ; Tumour, **Kayser** ; Warty legs, **Mester** (3) ; Ornithosis research in Australia, **Miles** ; *Pasteurella* in magpie, **Myktylowycz & Davies** ; Leptospirais from Little Crake, **Nasibulina & Blagodarnyi** ; Golden Eagle with tuberculosis, **Waterston**.

Mortality.—Tit stung by bees, **Almond** ; Road deaths, **Bruijns** (2) ; Spring snow-storm effect on migratory birds, **Gagarin & others** ; Salt-encrustation of ducks, **Hall, H. G.** ; Mass death of Starlings, **Lebedeva** ; Nestling tits killed by woodpecker, **Mountfort** ; Smog, **Peet** ; Experiments with snake venom, **Russell & Emery** ; From oil, **Sapozhenkov** ; Mutton-birds, **Sefton** (1) ; Insecticide experiment, **Stempel** ; Effect of spring snowfall, **Sukhinin**.

III.—DISTRIBUTION

(a) GEOGRAPHICAL PALAEARCTIC REGION

England.—Yorkshire, **Chislett, Jackson**, R. V., **Skinner, Spencer** ; Lancashire, **Spencer**, K. G. ; Liverpool, **Unsworth** ; West Midlands, **Lord** ; Warwickshire, **Bradford** ; Cottswold, **Charteris & Swaine** ; Cambridgeshire, **Oakley** ; Bedfordshire, **Gribble, Key** ; Suffolk, **Anon.** ; Lowestoft, **Jenner** ; Essex, **Tutt** ; Bishop's Stortford, **Essex**, **Hutchin, Weedy** ; Hertfordshire, **Lloyd-Evans, Sage** ; Berkshire, **Field, Green, Huddart** ; Middlesex, **Bedford, Pollard** ; Kent, **Holroyd** ; Hampshire, **Cohen, E.** ; Isle of Wight, **Stafford** ; Wiltshire, **Pearson** ; Newbury District, **Anderson, L. F., Summers-Smith**, D. ; Bristol, **Anon.** (4) ; Devon, **S.**

Wales.—Cardiganshire, **Peach** ; Pembrokeshire, **Barrett** (1).

Scotland.—Berwickshire, **Home, Long & Murray**.

Ireland.—O Ruadhain ; Aran Is., **Barrett** ; Co. Armagh, **Nesbitt** ; Co. Kerry, **Harrop** ; Belfast area, **Brown, J. J.** ; Rathlin I., **Port**.

Smaller British Islands.—North Rona, *Bagenal & Baird* ; St. Kilda, *Williamson*, K. ; Farne Is., *Hickling* ; Isle of Man, *Brun*, E. ; Scilly Is., *Parslow*.

Channel Islands.—Jersey, *Graham*, C. S. & others.

France.—*Germain & Seguy* ; West France, *Kowalski* ; Alps, *Dleu* ; Brittany, *Barloy, Gautier & others* ; Camargue, *Penot, Festetics, Hoffmann, Williams*, G. ; Champagne, *Labitte* ; Dinarid (I.-&V.), *Brosselin & Julien* ; Eure, *Brosse* ; Ille Dumet, *Labitte & Langinetif*.

Belgium.—*Cuypers, Lippens, Mostmans, Nef, Parijs, Ruwet, Worteelaers, Verheyen* ; Spa, *Rappe* ; Limburg, *Janssen*.

Netherlands.—*Baan, Broeksma & others, Hellebrekers, Japin & Velden, Kist, Lebret, Smith & Voous, Tjittes, Reine, Oord, Hooger & Kluijver, Rooth, Spaans, Kate, Kate & Taapken, Taapken, Marken, Braaksma*.

Denmark.—*Blume, Johansen, Pedersen, Preuss, Poulsen, C. M., Rosenborg*.

Sweden.—*Danielsson, Nagell & others, Tyler, Holmberg, Lennérstedt & Ulfstrand, Lundell, Lundevall, Lundin, Markgren, Markgren & Lundberg, Jonsell, Smålander, Sollenberg, Ulfstrand, Vaucher (1) ; Kranksjön, Ulfstrand ; Idre, Karvik ; Lapland, Burton & Webbe ; Uppland, Lundin*.

Norway.—*Bernhoft-Osa, Haftorn, Hornslien, Myrberget, Nicolaisen, Westerskov, Krogh* ; Peter I's I., *Holgersen*.

Finland.—*Antonen, Back, Casén, Hildén, Hakala, Jahnukainen, Lind, Rajala, Hayriinen & Mikkola, Rässänen, Siira, Kalela (1), Linkola, Koskimies & Rajala, Nicholson, Nordstrom, Silvola, Törnroos, Valtonen, Vaucher*.

U.S.S.R. General Works.—*Kirikov, Novikov, Shevareva, Skokova*.

U.S.S.R. European Territory.—Polar Urals, *Danilov* ; Mid-Urals, *Kuznetsov* ; Arctic zone, *Uspenski, S. M., Uspenski, S. M. (1)* ; Belarusia, *Golodushko* ; Central parts, *Aleksseev, Mal'chevskii, Tatar, Semago, Barabash-Nikiforov* ; Ukraine, *Smogorzhev'ski* ; Volga delta, *Lugovoi* ; Sea of Azov, *Oleinikov & Danilova, Uspenski & others* ; White Sea, *Spangenberg & Leonovich* ; Perm region, *Samarin* ; Estonia, *Kumari, Onno, Randla, Tamm*.

U.S.S.R. Caucasus.—*Beme, Bernatski, Gusev & Stegman, Kotov, Krivosheev & Stapanian, Martirolyan*.

U.S.S.R. Siberia.—*Yakutia, Egorov, Egorov & Perfil'ev, Labutin, Larionov, Sdobnikov* ; Transbaikal, *Filonov, Gavrin & Rakov, Izmailov & Khankhasaev, Izmailov & Prokof'ev* ; Krasnoyarsk region, *Fedosenko, Syrozchkovski & Rogacheva* ; Novaya Zemlya, *Uspenski* ; Barents Sea, *Belopolskii*.

U.S.S.R. Middle Asia.—Turkestan and Kazakhstan.—Kazakhstan, *Kubantsev, Lesnyak, Panchenko, Samusev, Samusev (1), Spangenberg, Vihokurov* ; Kirghizia, *Gagarin & others, Kydryaliev, Stepanyan, Stepanyan (1), Stepanyan (2), Spangenberg & Sudilovskaya, Yanushevich, Yanushevich & Fedyanina, Yanushevich & others* ; Uzbekistan, *Meklenburtsev, Meklenburtsev (1)* ; Turkmenia, *Rustamov & Mustafaev, Sukhinin*,

Sukhinin (1) ; Tadzhikistan, Potapov ; Usturt plateau, *Dubrovski*.

Poland.—*Brzek, Dyrcz, Dubicka, Feren, Przybyla & Szaski, Sokolowski, Jurczyk, Mierzwiński, Poradowski, Mrugasiewicz & Wolk, Nowak, Riabinin, Sokolowski, Lukaszewicz, Tomek (1), Szczepaki & Szczepaka*.

Switzerland.—*Blotzheim, Blotzheim & Sanwarz, Géroudet, Hertig, Schifferli, Willi* ; Tessin, *Corti*.

Germany.—*Bauer, W., Bub, Fehringer, Hennings, Bruns & Nocke, Oelke, Peitzheimer, Reinsch, Rettig, Frieling, Holscher, Müller & Petersen, Müssel, Semmler, Steiner (1), Tenuis, Wulf, Ringleben* ; Saxony, *Ringleben (1), Schoenagel* ; Würzburg, *Rosenberger* ; Bavaria, *Bruns, Creutz, Heer, Mebs, Wüst* ; Peine, *Oelke* ; Heligoland, *Vauk & Bindig, Drost* ; Berlin, *Grosskopf (1)*.

Austria.—*Corti (1), Tratz, Kepka, Schönbeck* ; Carinthia, *Klimsch, Zapf* ; Linz, *Mayer, Höninger*.

Hungary.—*Agárdi, Barthos, Beretzk, Csaba, Csornai, Szlivka & Antal, Farkas, Sterbetz, Thóbiás, Vertse, Zádor, Csóka, Baboss, Hankó, Györfi, Lenner, Patkai, Stollman, Sámuel, Schmidt, E., Tolgyesi, Söregi, Csiba, Dorning, Festetics, Györy, Géreby, Keve, Marián, Schäfer, Heffel, Szlivka, Dudich & Kol, Beretsk & Schmidt, Horváth, Keve* ; Kis-Balaton, *Warga* ; Hortobágy, *Sóvágó* ; Lake Kisbalaton, *Steffel* ; Tisza, *Beretzk, Kárpáti*.

Czechoslovakia.—*Feriancova, Štepánek* ; Mlynany Arboretum, *Sládečka* ; Moravia, *Kux*.

Yugoslavia.—*Cornai, Kerić, Hughes & Sumerfield, Pelle, Postruzin, Rucner, Szlivka, Tutman*.

Rumania.—*Gá, Pascovschi & Nadra*.

Italy.—*Bassini, Crestvolant, Jany (1), Moltoni* ; I. di Ustica, *Ajola*.

Greece.—*Etchécopar (1)* ; Corfu, *Flach*.

Turkey.—*Etchécopar, Geesteranus*.

Spain.—*Flach (1), Schubert, Valverde (1)*.

Mediterranean.—*Corsica, Knecht & Rost, Löhrli* ; Crete, *Altner & Reger* ; Malta, *De Luca*.

Near East.—Levant, *Horváth (3)* ; Lebanon, *Flach (2)* ; Syria, *Kumerioeve (2)* ; Israel, *Zeira* ; Haifa, *Hovel*.

Middle East.—Iran, *Passburg* ; Jordan, *Hollom* ; Iraq, *Harrison, J. M.* ; Iraq, *Johnson, L. R., Sage* ; Aden, *Sage (4)*.

China.—Manchuria, *Piechocki* ; Southern Yunnan, *Ivanov* ; Shanghai, *Li & others*.

Japan.—*Ishizawa, Izumi, Kobayashi, Morioka, Sugizaki* ; Hokkaido, *McClure & Yoshii* ; Izu Is., *Moyer*.

North Africa.—Libyan Desert, *Al-Hussaini* ; Tangier, *Brudenell-Bruce* ; Morocco, *Bierman, Brosset, Meise (1), Pasteur, Fréte, Panouse, Robin* ; Mauritania, *Naurois* ; Tibesti Mts., *Tuck, R. F.* ; Sahara, *Roche, Tuck, R. F. (1)* ; Spanish Sahara, *Valverde*.

Atlantic Islands.—Canary Is., *Hemmingsen*.

AUSTRALIAN REGION and POLYNESIA

Australian Commonwealth.—*Carrick, Frith, Keast, Miles, Gibson & Sefton, Jack, McGill, Wakefield, Warham* ; Western Australia, *Ford &*

Teague (1), **Jenkins**, C. F. H., **Slater**, Watson, J. A. L.; **Queensland**, **Bravery**, Kennedy, Bravery & Orrell, Sharland, Wheeler, R., Liddy; Willis I., Queensland, **Serventy**, V.; Victoria, **Bedggood**, Wood, P. J.; New South Wales, **Davies**, S. J. J. F., Frith & Tilt, **Gibson** & **Sefton**, Gwynne & Gray, Hobbs, **Sefton**; Sydney, N.S.W., **Hindwood** & **McGill**; South Australia, **Boehm**, Schodde; Rottenest I., **Serventy** & **Storr**; Tasmania, Bolger.

New Zealand.—**Aclris**, Falla, Gillham, Dawson, E. W., Andrew, Bull, P. C., Falla, Fleming, Kinsky, Scarlett, Sibson, Soper, Phillips, Small & Soper; Northland, Michigan; Southern Fiordland, Riney & others; Chatham Is., **Dawson** (4), **Lindsay**, Phillips; White I., **Wodzicki** & **Robertson**; Poor Knights I., **Chambers**, Kinsky & Sibson; Hen I., **King**, S. A.

Pacific Islands.—Wake I., **Bryan**; Papuan Islands, **Ripley** (2); New Guinea, **Keast** (2).

ETHIOPIAN REGION

West Africa.—Senegal, **Roux** (1); Arguin banks, near Cape Verd, **Balsac** & **Mayaud**; French Guinea, **Berlioz**; Portuguese Guinea, **Frade** & **Bacelar**; Sokoto, Nigeria, **Dobbs**; Ennedi, Nord-Tschad, **Kollmannsperger**; Belgian Congo, **Schouteden**; Gabon, **Berlioz** (7).

Atlantic Islands.—Ascension I., Stonehouse.

South Africa.—Anon., **Brooke**, Connell, Clancy, Little, Winterbottom (11); Bloemhof, **Merwe** & **Winterbottom**; Cape Province, **Hall**, K. R. L., Calder, Taylor, I., **Winterbottom** (5) (7); Orange River Estuary, **Grindley**; Namaqualand, **Winterbottom** (6); Southern Rhodesia, **Smithers**, Irwin & Paterson, Took; Chimanimani Mts., S. Rhodesia, Masterson & Child; Bulawayo, **Harwin**; South West Africa, Clancey (13).

Central and East Africa.—**Kittenberger**; Northern Rhodesia, **Benson** (3), **Winterbottom** (4); Nyassaland, **Long**, R. C.; Kenya, **North**, Parsons, **Bednall**; Nairobi, Kenya, **Williams**, J. G.; Mozambique, **Frade** & **Pinto**, **Pinto** & **Lamm**; Zanzibar, Pakenham.

ORIENTAL REGION

Indian Peninsula and Ceylon.—Duars, **Inglis**; Kutch, **Himmatshji**; Ceylon, **Phillips**, W. W. A. (1).

Malaysia.—Malacca, Batchelor.

Indonesia.—Western Siam, **Fluitter**; Korea, **Fennell**, **Won** & **Woo**; Philippine Is., **Parkes** & **Adamson**, Rand [& others]; **Schauensee** & **Pont**; Cebu, Philippine Is., **Rabov**.

Pacific Islands.—Borneo, **Harrison**, Harrison & Smythies; Timor, **Bacelar**.

NEOTROPICAL REGION

Central America.—Panama, **Wetmore** (2).

West Indies.—St. Croix, Virgin Is., **Seaman**; Trinidad, **Coursen**.

Pacific Islands.—Galapagos Is., **Dorst**.

South America.—Venezuela, **Gilliard** (1), **Cuello**, **Phelps** (1) (2), **Yépez**; Ecuador, **Marchant**; Colombia, **Olivares**, **Schauensee**; Brazil, **Novaes**, **Ruschi**, **Sick** (1), **Stager**; Peru, **Blake**, E. R., **Koepecke**, **Sánchez**; Uruguay, **Escalante**; Argentina, **Olrog**, Bo; Chile, **Belton**, **Valenzuela**; Cape Horn, **Rüe**.

NEARCTIC REGION including MEXICO

Mexico.—Baja California, **Davis**, J.; Catemaco Basin, southern Veracruz, **Edwards** & **Tashian**; Clipperton I., **Howell** (1); Coahuila, **Urban**; Jalisco, **Selander** & **Giller** (1); Oaxaca, **Berlioz** (4); Zacatecas, **Webster**.

U.S.A. Pacific Coast and Rocky Mts..—Oregon, **Du Bois**, Marshall, D. B.; California, **Gardner**, Johnson, M. E., **Small**, **Morley**, **Murrell**, Small, **Stott**, **Stott** & **Sams**, **Yocom**; San Diego, California, **Sams** & **Stott**; Nevada, **Gullion**, **Pulich** & **Evensen**, **Johnson** & **Banks**; Montana, **Hoffman**, R. S., **Hand** & **Wright**, **Walker**; Colorado, **Knorr**.

U.S.A. South Western.—Arizona, **Levy**; New Mexico, **Campbell**, J. M., **Montgomery**, **Rickard**; Texas, **Fritz**, Hall, C. E. & others, **Miller**, F. W., **Reeves**; Oklahoma, **Tomer**.

U.S.A. North Central.—Ohio, **Sheppard**; Michigan, **Zimmerman** & **Van Tyne**; Minnesota, **Allin**, **Lupinent**, **Schmid**, **Schemnit** & **Bremer**; Lyon County, Kansas, **Clarke**, **Breukelman** & **Andrews**.

U.S.A. South Eastern.—South Carolina, **Dawn** (1); Tennessee, **Farmer**; Florida, **Hamon**, **Monroe**, B. L., Jr.

U.S.A. North Eastern.—New York, **Andrie**, **Benton**, **Gordon**, **Buckley** (1); **Eaton**, **Raynor** (1), **Wilson**, **Scheider**; New York City, **Bull**, J. L.; Baxter Creek, New York City, **Buckley**; Central Park, New York City, **Carleton**; Pennsylvania, **Grube**, **Wood**, M.

Canada.—**Godfrey**; **Quebec**, **Arnold**; Baffin I., **Macpherson** & **McLaren**; Bylot I., **Van Tyne** & **Drury**; Ungava Peninsula, **Harper**; Thunder Bay, Ontario, **Denis**; Nova Scotia, **Godfrey**, **Tufts**, **Scott**, D. M.; Newfoundland, **Tordoff** & **Southern**; Northwest Territories, **Höhne**; British Columbia, **Erskine** (1), **Guiguet**, **Paul**; Vancouver I., **Mitchell**.

Alaska.—Aleutian Is., **Murie**; Katmai National Park, **Cahalane**; Koalak River, **Maher**; St. Lawrence I., **Fay** & **Cade**.

THE OCEANS

Atlantic Ocean.—**Vorous** (3); **Geogh** I., **Holdgate**.

North Atlantic.—**Oordt**, **Wiley**; North Sea, **Remmert**.

Arctic.—**Johanssen** (1); Bylot Island, N.E. Canada, **Tuck**, L. M. & **Lemieux**.

Indo-Pacific Ocean.—**Serventy**, D. L.

Indian Ocean.—**Fischer**.

Antarctic.—**Eklund**, C. R.; **Ozawa**; **Kerguelen** Is., **Aretas**.

(b) GEOLOGICAL

Pleistocene.—North America, **Wetmore** (1); Arkansas, **Wetmore**; Florida, **Holman**, **Brodkorb**, **Woolfenden**; New Providence I., Bahamas, **Brodkorb** (1); Central Russia, **Tattar**.

Pliocene.—Kansas, **Tordoff**.

Miocene.—Australia, **Simpson**.

IV.—SYSTEMATIC INDEX

References to the "Titles" is by the name(s) of the author(s) printed in clarendon type.

†ARCHAEOPTERYGIFORMES

[No record]

SPHENISCIFORMES

SPHENISCIDAE

Popular account of the penguins, **Murphy**.

†*Anthropodytes gilli* gen. et sp. nov. p. 113, **Simpson**; its age, **Gill**.

Aptenodytes forsteri notes, **Cabes**; measuring temperature of incubating eggs, **Eklund & Charlton**; description of a rookery, **Harrington**; rookeries, **Ingham**; popular account and status, **Rivoller**; myology, **Setty**.

Eudyptula minor novaehollandiae New Zealand account, **Kinsky**.

Pygoscelis adeliae cutaneous muscles, **Setty**.

STRUThIONIFORMES

STRUThIONIDAE

Fossil ostriches in W. Transbaikal, **Ivan'lev**.

Struthio sp. fossil egg from Odessa, **Roshchin**; *S. camellus* smoke bathing, **Conway** (4); *S. massaicus* injury feigning, **Kittenberger**.

RHEIFORMES

[No record]

CASUARIIFORMES

DROMICEIDAE

Dromaeus Novae Hollandiae French historical study, **Jouanin**; notes from Western Australia, **Long**, J. L.; study of the pecten, **Vrabcé**.

†AEPYORNITHIFORMES

[No record]

†DINORNITHIFORMES

[No record]

APTERYGIFORMES

APTERIGIDAE

Apteryx australis mantelli stomach contents, **Bull**, P. C. (1); *A. a. lawryi* nest note and photo., **Soper**.

TINAMIFORMES

TINAMIDAE

Crypturellus strigulosus peruvianus subsp. nov. p. 373, **Blake**, E. R.; *C. variegatus lako* validity, **Berle**.

Eudromia formosa and *E. elegans* distinct spp., **Olrog**.

Nothoprocta cinerascens parvimaculata subsp. nov. p. 39, **Olrog** (1).

Nothura maculosa pallida subsp. nov. p. 41, **Olrog** (1).

Querandiornis Romani gen. et sp. nov., **Rusoni**.

Tinamus major observations from Costa Rica, **Skutch**; *T. tao* and *T. solitarius* subsp., **Amadon**.

GAVIIFORMES

GAVIIDAE

Gavia arctica in Mediterranean, **Affre**; duration of dives, **Joyce**.

PODICIPITIFORMES

PODICIPITIDAE

Albinism, **Weller**.

Podiceps cristatus German note, **Berger**, G.; English census 1946-55, **Hollom**; *P. dominicus* in Arizona, **Levy** (1); *P. grisegena* Hungarian breeding, **Máté**; Finnish note, **Pöyhönen**; California record, **Stott** (2); *P. novae-hollandiae* feeding note, **Hobbs** (3); *P. poliocephalus* call, **Sharland** (1); *P. ruficollis* head-swinging behaviour, **Mester**; display, **Wilson**, D. R. (1).

PROCELLARIIFORMES

Diving abilities, **Paulian**; Classification, **Verheyen** (2).

DIOMEDEIDAE

Salt balance and behaviour in captivity, **Frings**; First report of New South Wales Study Group, **Gibson & Sefton**.

Diomedea epomophora nesting habitat, **Westerskov** (1).

PROCCELLARIIDAE

Bulweria bulwerii occurrence in Indian Ocean, **Phillips**, W. W. A. (2).

Daption capense ringing result, **Hennings** (1).

Fulmarus glacialis incubating eggs of *Larus marinus*, **Boyd**, J. M.; North Atlantic notes, **Drury**; avoiding seal-driven shoals of mackerel, **Boddington**; observations in Spitzbergen, **Pennycuick & Webbe**; increase in Shetland, **Venables**.

Macronectes giganteus Australian antarctic ringing results, **Ingham**.

Procellaria aequinoctialis on River Amazon, **Novaes** (2); *P. westlandica* Australian record, **McGill**.

Pterodroma arminkiniana a new bird for Australia, **Warham**; *P. hypoleuca* osteology, **Kuroda**.

Puffinus spp. New South Wales note, **Davies**, S. J. J. F. *P. assimilis myrtae* subsp. nov., **Bourne** (1); *P. carneipes* off Southern California, **Small** (2); *P. diomedea borealis* Florida record, **Langridge**; notes from Madeira, **Pickering**; *P. griseus* German note, **Brennecke**; *P. lherminieri loyettillera* subsp. nov., **Wetmore**; *P. tenuirostris* body temperature study, **Farner & Serventy**; reproduction study, **Marshall & Serventy**.

HYDROBATIDAE

Hydrobates pelagicus nesting colony in Co. Donegal, **Wilson**, D. R.

Oceanites oceanicus at Colorado, **Dawson** (2).

Oceanodroma leucorhoa breeding place, **Bagenal**.

PELECANOIDIDAE

Pelacanoides georgicus Australian record, **Gibson & Sefton** (1).

PELECANIFORMES

PELECANIDAE

Pelecanus spp. feeding habits, **Gunter**; aviculture and studies in captivity, **Meischner**; *P. onocrotalus* habit note, **Brouwer**; observations on Tanganyika colony, **Ströh**.

SULIDAE

Sula bassana orientation experiments, **Drury** ;
S. leucogaster brewsteri in California, **Huey**, L. M. ;
S. serrator need for protection, **Chisholm** (1).

PHALACROCORACIDAE

Guano islands off Argentina, **Lopez** ; Breeding biology on the equator, **Marshall & Roberts**.

Phalacrocorax auritus Alaska breeding, **Williamson & Peyton** ; *P. carbo* biology in Poland, **Mackowicz & Sokolowski** ; *P. c. sinensis* pair-forming behaviour, **Kortland** ; *P. pygmaeus* invasion in south Germany, **Groebbel**.

CICONIIFORMES

ARDEIDAE

A method of determining age of nestlings, **McClure & others** ; Foot-stirring feeding behaviour, **Mayer-riecks** ; migration in U.S.S.R., **Skokova**.

Ardea cinerea Dutch ringing results, **Nieuwenhoven** ; behaviour of yearlings, **Owen** ; 1958 British census of heronries, **Stafford** (1) ; 24 years old, **Viré** ; *A. herodias* mortality rate, **Owen** ; in arctic Alaska, **Brock** ; *A. purpurea* nesting in Poland, **Lukaszewicz** ; biology, **Oleinikow & Danilova** ; observation in the Camargue, **Williams**, E.

Ardeola ibis African race, **Clancey** ; *A. i. ibis* gross and microscopic anatomy of alimentary tract, **Al-Hussaini & Ghorab** ; *A. ralloides* photos at nest, **Hosking & Ferguson-Lees** (1).

Bubulcus ibis note, **Dawn** ; in Haiti, **Owre** ; in Mexico, **Denham** ; Western Australia, **Jenkins**, C. F. H. (1) ; observations in Colombia, **Lehmann**.

Botaurus stellaris display flight, **Benson**, G. B. G. ; relation to muskrat farming, **Levroff** ; swimming, **Schmidt**, G. (1) ; migrations from ringing results, **Zink**.

Butorides striatus chloriceps taxonomic note, **Biswas**.

Camerarius albus egretta effect of cold weather on breeding, **Simmons**, E. M.

Egretta spp. in Tasmania, **Bolger** ; *E. alba* in Lower Silesia, **Lukaszewicz** (2) ; *E. garzetta* French note, **André** ; blue phase, **Guichard** ; ringed in Spain taken in Trinidad, **Downs**, W. G. ; in Ireland in 1957, **O Ruadhain**.

Ixobrychus exilis Manitoba breeding records, **Dillon** ; *I. e. erythromelas* new in Argentina, **Bo** ; *I. minutus* breeding biology, **Gentz**.

Nycticorax nycticorax breeding colony in Netherlands, **Hoogers & Kluijver**.

Balaeniceps rex notes, **Gordon**, H. M., Long.

CICONIIDAE

Ciconia ciconia status in Austria and Hungary, **Aumüller** ; German breeding records, **Baden**, **Steiniger** ; nest observations, **Eberle** ; popular French account, **Gauroy** ; Russian biology, **Golodusko** (1) ; in Austria 1958, **Kepka** ; increase in Transylvania, **Kohl** ; stomach contents, **Darázsi** ; status in Bavaria in 1958, **Mehl** [& others] ; food note, **Raible** ; resistance to very low temperatures, **Tadić** ; not being harmed by locust poisons, **Vesey-Fitzgerald** ; arrival dates in Poland 1946-1952, **Zabczuk** ; *C. nigra* in Kruger National Park, **Prozesky**.

Ibis ibis in North Africa, **Castan**, Olier.

THRESKIORNITHIDAE

Migration in U.S.S.R., **Skokova**.

Ajaia ajaja in Peru, **Stott**.

Comatus eremita nesting in Morocco, **Robin**.

Platalea leucorodia flight, **Kokshaiski**.

Plegadis falcinellus northward breeding range extension, **Hallman** (3) ; French note, **Ingrand** ; flight, **Kokshaiski**.

Threskiornis molucca in Tasmania, **Green**, R. H. ; *T. spinicollis* in Tasmania, **Green**, R. H. (2) ; *T. spinicollis* and *T. molucca* food and feeding habits in Australia, **Carrick** (1).

PHOENICOPTERIDAE

Breeding localities, **Brown**, L. ; Aviculture, **Conway** (3).

Phoenicopterus ruber life history and survival, **Allen**, R. P. ; Camargue nesting 1957, **Hoffmann**, L. (1) ; nesting in Morocco, **Panouse** ; in southern California, **Rechnitzer** ; copulation, **Suchantke** (1) ; *P. r. chilensis* breeding observations in Basel Zoo, **Wacker-nagel** (1).

ANSERIFORMES

ANHIMIDAE

Anhima cornuta aviculture, **Spence**.

ANATIDAE

Sexual biology study in Bavaria, **Bezzel** ; Waterfowl of the World, vol. 3, **Delacour** ; Wild ducks ecology in New South Wales, **Frith** (1) ; Ecology in inland Australia, **Frith** (2) ; Helminths, **Gubanov & Ryzhikov** ; Analysis of learning in young, **Klopfen** (3) ; Endoadaptation between habits and organs, **Kuroda** (2) ; Pre-copulatory display, **Myren** (1) ; distribution in Kazakhstan, **Panchenko** ; Systematic notes on North American spp., **Parkes** (1) ; Notes on rare spp., **Scott**, P. ; migration in U.S.S.R., **Shevar-eva** ; hibernation on Sea of Azov and Black Sea, **Uspenski & others** ; Key to South African spp., **Wheeler & Winterbottom**.

Aix "species recognition", **Dilger & Johnsgard** ; *A. sponsa* a reason for colourful plumage, **Hailman** ; ringing results, **Stewart**, P. A.

Anas spp. breeding in Finland, **Sura** ; *A. acuta* diving, **Chapman**, **King & Webb** ; in Southern Rhodesia, **Took** ; *A. acuta* × *A. crecca carolinensis* hybrid, **Howell** (2) ; *A. chlorotis* a New Zealand census, **Bell**, B. D. ; *A. cygnoides* doubtful occurrence in South Africa, **Benson & Grimwood** ; evolutionary significance of plumage sequences, **Harrison**, J. M. & J. G. (1) ; Swiss breeding study, **Noll** ; *A. crecca carolinensis* in Morocco, **Fréte** (1) ; *A. laysanensis* aviculture, **Ripley** ; *A. penelope* migration and distribution in Europe, **Donker** ; flighting habits, **Lebret** ; yellow plumage, **Silvola & Syriä** ; *A. platyrhynchos* behaviour, **Geyr von Schweppenburg** (1) ; nest in fir tree, **Huber**, J. ; high nest, **Hofer** ; migration from ringing results, **Penot** ; *A. rhynchos* *variegata* diving for food, **Black** ; *A. strepera* autumn food habits, **Gates** ; plumage variants, **Harrison**, J. M. & J. G. ; six year nesting on Long I., N.Y., **Sedwitz** ; Swiss breeding study, **Thönen**.

Anser albifrons flavirostris in Netherlands, **Kist** (2) ; *A. anser* Dutch race, **Kist** (3) ; breeding observations, **Richter**, H. ; *A. brachyrhynchus* decrease in Netherlands, **Lebret** (2).

Anseranas semipalmatus status in Dutch New Guinea, **Hoogerwerf**.

Aythya americana parasitic egg laying, **Weller** (1) ; *A. collaris* in Berkshire, **Sharrock & Gillmor** ; *A. ferina* and *A. fuligula* plumage varieties, **Gillham**, E. H. ; *A. fuligula* Belgian breeding, **Arnhem** ; breeding population study near Munich, **Bezzel** (1) ; population changes in Finland, **Kalela** (1).

Branta bernicla off California, **Murrell** ; winter feeding pattern, **Ranwell & Downing** ; present status in western Europe, **Salomonson** ; status in U.S.S.R., **Uspenski**, S. M. ; *B. canadensis* social behaviour study, **Collias & Jahn** ; *B. canadensis* races in Michigan, **Stabler** ; *B. sandvicensis* present status in Hawaii, **Elder**.

Bucephala clangula display, **Dane, Walcott & Drury** ; Polish nest notes, **Oko** ; inland in southeastern California, **Stott & Sams** ; *B. islandica* in Texas, **Miller**, F. W. ; *B. islandica* × *B. clangula* hybrid, **Jackson**, M. F.

Cairina scutata present status, **Gee**.

Casarea ferruginea German note, **Blumenstein**.

Chen hyperborea atlantica general biology, **Lemieux** ; *C. hyperborea* and *C. caerulescens* assortive mating, **Cooch & Beardmore**.

Clangula hyemalis California records, **Small** (1).

Cygnus bewickii in Camargue, **Jeantet** ; German note, **Oelke** (2) ; *C. columbianus bewickii* status in British Isles in winters 1954-56, **Nisbet** (1) ; *C. olor* nesting and moulting notes, **Boose** (1) ; oology, **Schwarz & others**.

Dendrocygna bicolor observations in Louisiana, **Meanley**.

Melanitta nigra diving from the wing, **Fry** (1) ; flightless condition, **Robson**.

Mergus mergus feeding technique, **Lindroth & Bergström**.

Malacorhynchus membranaceus display, **Hobbs** (2) ; nesting study, **Warham** (2) ; popular account, **Warham** (3).

Netta rufina status in British Isles, **Pyman**.

Nyroca spp. mixed clutches in Poland, **Wikowski** (1).

Oidemia nigra americana in Texas, **Reeves**.

Oxyura maccoa biology, **Macnae**.

Plectropterus gambensis incubation and fledgling period, **Prozesky** (1).

Somateria mollissima spreading in Great Britain, **Taverner** ; *S. spectabilis* mated with *S. mollissima* in Iceland, **Pettigill**.

Tadorna tadorna winter counts in east Scotland, **Boose** ; behaviour studies, **Lind** (2) ; inland breeding in Denmark, **Poulsen**, C. M.

FALCONIFORMES

CATHARTIDAE

†*Pliogyps fisheri* gen. et sp. nov., **Tordoff**.

ACCIPITRIDAE

Nidification in eastern Pyrenees, **Bassouls & Naurois** ; Competition for food between vultures, **Petrides**.

Accipiter cooperii and *A. gentilis* food habits at nest, **Meng** ; *A. gentilis* note, **Magnenat** (1) ; nest observations, **Parratt** ; Belgian study, **Wortelaers** ; *A. g. suschkini* in Norway, **Barth & Anfinnsen**.

Aquila chrysaetos Italian note, **Foschi** ; and lambs on Lewis, **Lockie & Stephen** ; with tuberculosis, **Waterston** ; predator of chamois, **Zollinger, Sutter** ; *A. clanga* French note, **Moriseau** ; *A. pomarina* mortality of young, **Sládek** (1).

Buteo albiguila spread in South America, **Stresemann**, E. (1) ; *B. buteo* Dutch note, **Braksma & others** ; Russian food study, **Godushko** ; eats own eggs, **Warncke & Wittenberg** ; breeding observations, **Warncke & Wittenberg** (1) ; general habits, **Wenzel** ; German ringing results, **Zink** (1) ; *B. jamaicensis* predation on lambs, **Barney** ; *B. j. kemsiei* subsp. nov., **Oberholser**.

Circus approximans migrations, **Hobbs** (1) ; *C. pygargus* melanism, **Magnenat**.

Elanus taxonomicus note, **Husain** (2) ; *E. leucurus* breeding in Surinam, **Haverschmidt** (1) ; unusual concentration, **Longhurst**.

Gampsonyx wing moult and systematic position, **Stresemann**, V.

Gypaetus barbatus bathing note, **Thönen** (2) ; *G. b. aureus* Austrian note, **Tratz**.

Gypus fulvus means of expression and social hierarchy, **Valverde** (2).

Haliaeetus albicilla helminths, **Golovin** ; *H. leucogaster* Tasmanian nesting note, **Green**, R. H. (1) ; nesting notes, **Rhodes**.

Helicolestes hamatus field observations, **Haverschmidt** (1).

Hieraetus fasciatus in Netherlands, **Bruijns** ; *H. pennatus*, French note, **Naurois** (1).

Milvus migrans status S.E. Queensland, **Hamilton**, F. M. ; French note, **Kowalski** (1) ; observations in Queensland, **Liddy** (1) ; associated with *Circus pygargus*, **Hertig** (2).

Parabuteo unicinctus nesting note, **Le Sassier & Williams**.

Pernis apivorus note, **Hooijdonk** ; French note, **Vlijm, Voous & Wattel**.

Spilornis spp. systematics, **Stresemann**, E. (4) ; *Spilornis bassus* type locality, **Stresemann**, E. (2).

PANDIONIDAE

Pandion haliaetus breeding observations in Scotland, **Anon.** (1) ; Long I., N.Y., note, **Latham**.

FALCONIDAE

†*Caracara creightoni* sp. nov. p. 353, **Brodkorn** (1).
Falco biarmicus feldlegii on Russian list, **Burckhak-Abrahamovich** ; *F. cherrii* Hungarian breeding observations, **Boroviczény** ; *F. eleonorae* French note, **Guichard** ; hunting flight, **Wettstein** (1) ; *F. jugger* first breeding in U.S.S.R., **Gusev & Stegman** ; *F. peregrinus* biology in Yakutia, **Egorov** ; Russian note, **Egorov** (1) ; *F. p. pealei* in northern Ohio, **Kemens** ; †*F. redeyi* sp. nov. p. 274, **Brodkorb** ; *F. rusticulus* German note, **Berndt** (1) ; German note, **Warncke** ; *F. sparverius* laboratory breeding note, **Hartman** ; *F. subbuteo* attacking *F. peregrinus*, **Olivier** (1) ; *F. tinnicus* catching fish, **Batten** ; boldness, **Davis**, T. A. W. ; *Polyborus* sp. scourge of wasps, **Skutch** (2).

GALLIFORMES

Geographical distribution and history of order, **Kuz'mina** ; Immunological distances, **Mainardi** (3).

MEGAPODIIDAE

Leipoa ocellata breeding biology, **Frith**.

TETRAONIDAE

Artificial rearing problems, **Marchlewski** ; winter life in Altai, **Dul'keit**.

Bonasa umbellus abnormal sternum, **Fisher & Ellarson** ; drumming photos, **Gunderson**.

Lagopus scoticus enquiry into decline, **Jenkins**, D. ; status in Europe, **Niehammer**.

Lyrurus tetrix damage done to pine seedlings, **Nef**.

Tetrao parvirostris, biology, **Egorov, Labutin & Mezhennyi** ; *T. urogallus* display photo p. 22, **Lundell**.

Tetrautes bonasia ruprestris German note, **Makatsch**.

Tympanuchus cecus and other pleistocene grouse remains, **Wetmore** (3).

PHASIANIDAE

Food in Denmark, **Hammer & others**.

Alectoris rufa aberrant, **Ash** ; German study, **Boehringer & Bodenstein**.

Colinus sylvium sp. nov. p. 276, **Brodkorb** ; *C. virginianus* experiments in testicular response, **Kirkpatrick**.

Coturnix sp. as laboratory research animal, **Padgett & Ivey** ; *C. coturnix* cloacal gland, **Coil & Wetherbee** ; migration in Turkestan, **Meklenburgtsev** (1).

Dendrocygna macroura song, nest, eggs and young, **Warner**.

Francolinus castaneicollis patrizii subsp. nov., **Toschi**.

Gallus lafayettii observations, **Henry** ; hybridization and behaviour, **Deraniyagala** ; natural food, **Phillips** ; *G. sonneratii* relationship to domestic fowl, **Danforth**.

Ithaginis cruentus affinis taxonomic status, **Biswas** (2).

Lophortyx californica popular account, **Crispens** ; population and breeding study in New Zealand, **Williams**, G. R.

L. gambelli stephensi subsp. nov. p. 368, **Phillips**, A. R. (1).

Odontophorus gujanensis rufogularis subsp. nov. p. 374, **Blake**, E. R.

Perdix perdix behaviour note, G— ; Polish nest note, **Graczyk** ; physiology, **Janda** ; status in New York, **Wilson**, J. E.

Phasianus colchicus females assuming male plumage, **Kuroda** (1) ; movement study in California, **Mallette & Bechtel** ; body weight change associated with breeding, **Nagra & Buss** ; acclimatisation in Norway, **Westerkov** ; *P. impeyanus* seventeenth century painting, **Duprat**.

Rollulus rouloul associating with swine in Borneo, **Pfeffer**.

Tetraogallus caucasicus biology, **Kotov**.

MELEAGRIDAe

Meleagris gallopavo occurrence in Europe before Columbus, **Bökonyi & Janossy**.

GRUIFORMES

TURNICIDAE

Systematics, **Verheyen**.

Turnix melanogaster status in Queensland, **Sharland** (2) ; *T. sylvatica lepurana* life history, **Hoesch** (1).

GRUIDAE

Balearica pavonina in Cambridgeshire, **Jones**, S. B. & P. E. H.

Grus americana in Illinois, **Mills & Bellrose** ; again in northwest Missouri after 45 years, **Reynolds** ; *G. canadensis* weights, **Huey**, W. S. ; *G. grus* French note, **Devaux de Chambord** ; migration, **Norrevang** ; photographed in Alberta in 1957, **Wishart**.

ARAMIDAE

Aramides cajanea popular note, **Skutch** (1).

RALLIDAE

Anatomy and progression in European spp., **Sigmund**.

Coturnicops noveboracensis in Minnesota, **Huber**, R. ; in Oklahoma, **Tomer**.

Crex crex decrease in Finland, **Haartman** ; population changes in Finland, **Kalela** (1).

Fulica americana interspecific intolerance, **Ryder** ; *F. atra* breeding biology, **Askaner** ; sex characters and body weights, **Blotzheim** (1) ; breeding study in Hertfordshire, **Sage** (5) ; note, **Sermet** (1) ; *F. australis* nesting in Otago, N.Z., **Small & Soper** ; *F. cornuta* breeding observations, **Behn & Millie**.

Gallicrex cinerea voice, **Neelakantan**.

Gallinula chloropus and *Porzana pusilla* voices compared, **Erard** (2).

Notornis mantelli last (?) occurrence on North I., N.Z., **Phillipps**.

Porzana porzana nesting in Norway, **Fagertun** ; Belgian study, **Huyskens & Weesenbeck** ; *P. pusilla* Dutch breeding observations, **Koridon**.

Rallus elegans tenuirostris taxonomic status, **Warner & Dickerman** ; *R. mirificus* sp. nov., **Parkes & Amador**.

OTIDAE

Ardeotis nigriceps ecological study, **Dharmakumar-sinhji**.

Gryzaja odessana new data on taxonomic position, **Voinstvensky**.

Neotis denhami nidification, **Blancou**.

Syphoites indica photos at nest, **Shivrajkumar**.

CHARADRIIFORMES

Breeding biology in captivity, **Frisch** (3) ; Projected new classification, **Verheyen** (1).

HAEMATOPIDAE

Haematopus moquini nesting observations in Cape Peninsula, **Hall**, K. R. L. (2) ; *H. ostralegus* migrations, **Andrew**, D. G. ; nesting note, **Penrose**.

CHARADRIIDAE

Arenaria interpres at Lake Balaton, **Sebestyén**.

Charadrius alexandrinus nesting observations, **Walters** ; *C. alexandrinus* and *C. dubius* German study, **Walters** ; *C. dubius curonicus* biology, **Stein** ; *C. hiaticula* nest in cornfield, **King**, F. ; *C. hiaticula*—semipalmatus problem, **Bock** ; *C. melanotos* twenty year ringing study, **Wilcox** ; *C. morinellus* status in Hungary, **Sterbetz** (1) ; *C.*

pecuarius nest records, **Hall**, K. R. L.; hatching observations, **Taylor**, I.; *C. vociferus* French record, **Bodin**; early and elaborate nests, **Phillips**, R. S.

Chettusia gregaria German record, **Lebert**.

†*Dorypaltung prospatus* gen. et sp. nov. p. 281, **Brodkorb**.

Eudromias morinellus Swiss record, **Hegg & Zimmerman**.

Hoplopterus armatus general biology, **Hall**, K. R. L. (1).

Microsarcorpus cinereus aviculture of chick, **Fushihara** (1).

Pluvialis dominica in Nova Scotia, **Tufts**.

Vanellus vanellus history and status in Switzerland, **Blotzheim** (2); Swiss nest notes, **De Crouzaz**; migration note, **Frieling**; breeding observations in captivity, **Frisch**; growth and weight of young, **Heim**; nesting in Italy, **Moltoni** (1); following the plough, **Peitzmeier** (1); breeding season, **Timmerman & Bruijns**.

SCOLOPACIDAE

Actitis hypoleucos breeding note, **Wadewitz**.

Calidris spp. Bavarian observations, **Remold**; *C. maritima* Swiss record, **Baula**; *C. melanotos* German note, **Bessel & Remold**.

Capella gallinago increase at St. Kilda, **Williamson**, K.; *C. stenura* in Europe, **Gladkow & Uspenskij**.

Ereunetes pusillus "foot-paddling" feeding, **Meyer-riecks**.

Erolia acuminata note, **Bell**, H. L. (2); *E. ferruginea* general biology, **Portenko**; *E. melanotos* aggressive behaviour of migrants, **Hamilton**, W. J. III; status and biology in northern Alaska, **Pitelka**; *E. ptilocnemis* in southern California, **Small**.

Heteroscelus incanum breeding in Alaska, **Weeden**, R. B.

Limnodromus griseus British record, **Home**, Long & Murray; French record, **Rousseau-Decelle**.

Limos spp. in New Zealand, **Sibson** (1); *L. limosa* paddling behaviour, **Balen**; breeding note, **Schneider** (1).

Micropalama himantopus in Chile, **Peña**.

Numenius spp. habits and economic importance in Hungary, **Beretzk**, **Keve, Nagy & Szijj**; *N. arquata* French note, **Ferry**; *N. borealis* in Texas, **Williams**, G. G.

Philohela minor angle of cerebral axis, **Cobb**.

Philomachus pugnax photos, **Doncaster & Bottomley** (1).

Scopulax rusticola note, **Labitte** (3); early roding, **Raynsford**; carrying fledged young, **Schäfer**, E.

Tringa glareola breeding status in Denmark, **Peder sen**; *T. ochropus* breeding in Inverness-shire, **Clifton**; *T. stagnatalis* first record in Netherlands, **Kist** (1); new in New Zealand, **Sibson**; *T. subruficollis* "head-lagging", **Naylor**; *T. terek* photos, **Hosking**; *T. totanus* biology, **Grosskopf**; note from Belgian Congo, **Herroelen** (1).

RECURVIROSTRIDAE

†*Coltonia recurvirostra* gen. et spec. nov., **Hardy**.

Himantopus himantopus Czechoslovakian invasion, **Hudec**; *H. h. leucocephalus* New Zealand winter nesting, **Stokes & others**; *H. melanurus* × *H. mexicanus* hybrids, **Lint**.

Ibidorhyncha struthersi biology in Tian-Shan, **Yanushevich**.

PHALAROPIDAE

Influx in Britain in 1957, **Sage & King**.

Lobipes lobatus note, **Hall**, G. A.

Phalaropus spp. German notes, **Hens**; *P. fulicarius* in mid-eastern Pacific, **Gilmore**; large flights on Long I., N.Y., **Wilcox**; *P. tricolor* in British Isles, **Cole**.

BURHINIDAE

†*Burhinus nanus* sp. nov. p. 354, **Brodkorb** (1); *B. oedicnemus* nesting study, **Brown**, G.; breeding observations in captivity, **Frisch** (2); *B. o. indicus* and introduced mesquite shrub, **Dharmakumar Singhji** (1).

GLAREOLIDAE

Glareola maldivarum in New Zealand, **Falla** (2); *G. pratincola* Russian study, **Vinokurov**.

Stiltia isabella status in northwest Queensland, **Liddy, Officer**.

STERCORARIIDAE

Catharacta macroura South-Polar recovery in Australia, **Eklund**, C. R. (1); *C. skua* Californian records, Small (3).

Stercorarius longicaudus German note, **Duchrow**; *S. parasiticus* possible assortive mating, **O'Donald**; genetics of colour phases, **O'Donald & Davis**; mating observations, **Williamson**, K. (1); *S. skua* Swiss note, **Hertig**; Italian note, **Moltoni** (2).

LARIDAE

Measurements of larger Swedish spp., **Borg**; General habits, **Elliott** (1); Revision of classification, **Moynihan**; Hostile behaviour and display patterns, **Moynihan** (1); Species field identification, **Semmler** (1); Behaviour study, **Tinbergen**.

Chlidonias spp. ecology in Volga delta, **Lugovoi**; *C. hybrida* French breeding colony, **Ferry & Doufour**; Belgian breeding, **Huyssens**; *C. leucoptera* in Berlin, **Bruch & Löschau**; note, **Wehner**; *C. niger* Australian sight record, **Bell**, H. L.; communal bathing in deep water, **Bennett & King**.

Hydroprogne caspia observations in Hungary, **Beretzk**; in Camargue, **Suchantke**.

Larus spp. colour aberrations, **Sage** (2); hierarchy of spp., **Labitte** (1); *L. argentatus* control in Netherlands, **Bruijns**; systematic study of Black Sea races, **Kohl**; movements of Michigan-bred birds, **Smith**, W. J.; fall migration from Minnesota, **Hofslund**; Dutch problem, **Spaans** (1); subspp. German note, **Suchantke** (2); geographical variation, **Voous** (2); *L. atricilla* following the plough, **Wolk**; *L. audouini* conservation, **Geyr von Schweppeburg**; *L. bulleri* feeding habits, **Bond & Cunningham**; *L. canus* increase in east Lancashire, **Spencer**, K. G. (2); Polish note, **Wikowski**; *L. delawarensis* five year count on Long I., N.Y., **Sedwitz** (1); *L. dominicanus* breeding in New South Wales, **Gwynne & Gray**; albino, **McLinton**; *L. fuscus* nesting on a bush,

Vernon & Avent; *L. f. graellsii* status in Europe, **Suchantke & Géroudet**; *L. marinus* killing migrant Blackbird, **Gamble**; inland breeding, **Iles, Govett & Rushforth**; diving from a height, **King, B.**; *L. melanoccephalus* breeding in Netherlands, **Japin & Velden**; *L. minutus* photos at nest, **Doncaster & Bottomley**; *L. pipixcan* in Hawaiian waters, **King, J. E.**; *L. ridibundus* head moult in spring, **Franck & Epprechti**; migrations of Bavarian birds, **Krauss**; histochemistry of heart, **Obrúčník**.

Pagophila eburnea reproductive behaviour, **Bateson & Plowright** (1); breeding biology in Spitzbergen, **Bateson & Plowright**; photos, **Cutbill & Hitchcock**.

Rhodostethia rosea photos, **Kist**; in Netherlands, **Spaans**.

Rissa tridactyla plumage and leg colour, **Coulson**; post-fledging mortality, **Coulson & White**; effect of age and breeding density, **Coulson & White** (1).

Sterna spp. nesting observations, **Labitte & Languetif**; *S. albifrons* body temperature regulation of young, **Howell**; life history, **Tomkins**; *S. bengalensis* in Camargue, **Beckmann & Orbahn**; *S. fuscata* breeding cycle on Ascension Island, **Chapin & Wing**; *S. hirundo* bird-ringing study at Cape Cod, **Austin**; two pairs using one nest, **Helminen**; nesting note, **Wainwright**; *S. macrura* nesting and mobbing behaviour, **Burton & Thurston**; *S. paradisaea* and *S. hirundo* eggs, nests and bill measurements, **Andersen**; *S. sandvicensis* as a breeding bird in Netherlands, **Rooth & Mörzer Bruyns**; Swiss note, **Thönen** (1); German breeding note, **Thybusch & Stiefel**; *S. sumatrana matthewsi* nesting observations, **Phillips, W. W. A.** (3).

RHYNCHOPIDAE

Rhynchos flavirostris breeding observations, **Attwell**; *R. nigra* nesting colony note, **Chamberlain**; fishing rates, **Zusi** (1).

ALCIDAE

Systematics, **Verheyen** (3); ecology on Northern and Far Eastern Seas of U.S.S.R., **Uspenski** (1).

Aethia pygmaea geographic variation, **Feinstein**.

Cephus grylle ultimus breeding in Ontario, **Lumsden**.

Fratercula arctica aviculture, **Conway** (2); rhythms in number attending Norwegian colony, **Myrberget** (1).

Pinguinus impennis Nova Scotia note, **Godfrey** (1).

Uria aalge alige breeding behaviour, **Tschanz**.

COLUMBIFORMES

Classification, **Stegman**.

PTEROCLIDAE

Pterocles orientalis in Basses-Pyrénées, **Barriety** (1).

RAPHIDAE

Raphus systematic position, **Lüttschwager**.

COLUMBIDAE

Rhythm of calls, **Bettman**; Economic importance of pigeons in towns, **Bruns** (1); Some colour varieties, **Goodwin, D.** (2); Taxonomic notes on American ground doves, **Goodwin, D.** (4).

Aplopelia larvata West African races, **Serle** (1).

Claravis pretiosa life history, **Skutch** (4).

Columba taxonomy of the genus, **Goodwin, D.**; *C. arquatrix* aviculture, **Collins**; *C. leucocephala* young fed on land snails, **Seaman**; *C. livia* Russian study of brain, **Guseł'nikov & Polanski**; behaviour during sun eclipse, **Kalkowski**; white domestic birds prey of goshawks, **Pielowski**; biology and control in Hamburg, **Reinke**; selection and flocking by domestic pigeons, **Steinbacher, G.** (1); morphological selection of carrier pigeon, **Valcarce**; *C. oenas* × *C. livia* hybrids, **Tomek**; *C. palumbus* Basque ringing results, **Barriety**; damage done, **Bernard** (1); note, **Lind**; late breeding, **Werner**.

Columbigallina passerina California nesting, **Sams**.

Megaloprepia validity, **Goodwin, D.** (3).

Nesopelia galapagoensis general biology, **Prestwich**.

Ptilinopus purpuratus range-changes in species-group, **Cain**; *P. superbus* records, **Hindwood** (2).

Streptopelia genetic interrelationship, **Irwin, M. R.**; *S. capicola* drinking habits, **North**; *S. decaocto* German records, **Aschenborn, Schneider**; German record, **Beron Geyr**; expansion, Rumanian study, **Dimitrie**; biology and distribution in Poland, **Dyrcz**; spreading in France, **Erard, Potz**; South German records, **Heer**; Czech note, **Fábera**; Italian note, **Gambotti**; spread in Poland delayed by egg-predation by choughs, **Nowak**; in Frisian Is., Germany, **Peitzmeyer**; flocking in Württemberg, **Hornberger**; Yugoslav notes, **Zulum, Piasevoli**; status in Alsace, **Olavier** (2); French note, **Olivier** (3); German note, **Frank, Oelke, Kuhlk, Ringleben**; in Augsburg, Germany, **Steinbacher, G.**; *S. risoria* origin of reproductive behaviour, **Lehrman**; *S. senegalensis* French note, **Kumerloeve** (2).

Treron sp. seed digestion, **Cowles & Goodwin**.

Turturoena iriditorques note, **Benson** (1).

Zenaidura macroura food habits, **Browning**.

PSITTACIFORMES

PSITTACIDAE

South Australian spp., **Boehm**; New South Wales spp., **Brereton & Soury**; Variation in reduction of the clavicles, **Glenny**; Aviculture of lovebirds and parrotlets, **Vane**; Observations on the Cacatuinae, **Vane** (1).

Agapornis pullaria breeding in captivity, **Dale & Perry**.

Ara hybrid in Basel zoo, **Lang & Stamm**.

Aratinga cactorum paraensis subsp. nov. p. 413, **Sick** (3).

Cacatua roseicapilla and *C. gymnopis* hybrids in Polish zoo, **Lukaszewicz** (1).

Conuropis carolinensis note, **McKinley**.

Cyanoliseus patagonus byroni avicultural study, **Housse**.

Glossopsitta porphyrocephala northern range limits, **McGill**.

Kakatoe tenuirostris breeding in captivity, **Lint**.

Myiopsitta monachus free living in Switzerland, **Krebs**.

Neophema pulchella status in New South Wales, **Hunt**.

Nestor meridionalis and *N. notabilis* supposed occurrence in Chatham Is., N.Z., **Dawson** (4).

Platycercus elegans possible blue variety, **Condon**.

Psittacula himalayana and *P. finschii* relationships, **Husain** (1) ; *P. intermedia* sp. validity, **Husain**.

Strigops habroptilus supposed occurrence in the Chat-ham Islands, N.Z., **Dawson** (4).

Trichoglossus johnstoniae pistra subsp. nov. p. 275, **Rand & Rabor** (1).

CUCULIFORMES

MUSOPHAGIDAE

Observations in Antwerp Zoo, **Carpentier** ; Classification, **Moreau** (4).

CUCULIDAE

Serratus muscles, **Berger**, A. J.

Chrysococcyx cyprinus fostered by *Nectarinia kilimensis*, **Ryves**.

Clamator glandarius possible French breeding, **Lignières** ; German record, **Lunau** ; parasitizing hole-nesting *Lamprocolius syceobius*, **Meijer**.

Crotophaga sulcirostris life history, **Skutch** (3).

Cuculus canorus German arrival dates 1948-57, **Brunn & Nocke** (1) ; Swiss study, **Marbot** ; historic series of photos of egg-laying, **Pike** ; *C. fugax hyperythrus* Japanese distribution, **Inoue**.

Surniculus lugubris mindorenensis subsp. nov. p. 38, **Ripley & Rabor**.

STRIGIFORMES

TYTONIDAE

Tyto alba nest observations in Jersey, **Pile** ; *T. capensis* remarks on subsp., **Amadon** (1).

STRIGIDAE

Eton College report, **Franklin** ; Owls of New York State, **Gordon**, D. C. ; Spp. notes in Sweden, **Wahlstedt**.

Aegolius acadicus Ontario ringing results, **Woodford** (1) ; *A. funereus* photos and breeding notes, **Källander** ; breeding observations, **Kuhk** (1).

Asio flammeus winter food, p. 348, **Szlivka** (2) ; *A. otus* observations on a wintering flock, **Birkenholz** ; note, **Rockenbach** ; *A. wilsonianus* observations at nesting concentration, **Stopflet**.

Athene noctua observations in the Camargue, **Festetics** (1).

Bubo bubo general habits in Yakutia, **Egorov & Labutin** ; Polish biology, **Ferens** ; food in Azerbaijan, **Martirosyan** ; adopts young *Strix aluco*, **Sadovsky** ; *B. b. yeniseiensis* food, **Egorov & Perfil'ev** ; *B. virginianus* race in Surinam, **Haverschmidt**.

Ciccaba woodfordii breeding note, **Blaker**.

Glaucidium passerinum German study, **Seifert & Schönfuss** ; *G. dickinsoni* sp. nov. p. 358, **Brodkorb** (1).

Otus asio lambi subsp. nov., **Moore & Marshall** ; *O. brucei exigua* subsp. nov., **Mukerjee** ; *O. provinciae* sp. nov. p. 360, **Brodkorb** (1) ; *O. scops* note, **Dreyer** ; *O. s. japonicus* status in Japan, **Ishizawa**.

Strix aluco voice study, **Arvola** ; delayed reaction experiments, **Macura** ; *S. varia* nest observations, **Robertson**, W. B., Jr.

Aves

CAPRIMULGIFORMES

NYCTIBIIDAE

Nyctibius aethereus longicaudatus subsp. nov., **Tamayo** ; new to Venezuela, **Yepez Tamayo** ; *N. griseus lambi* subsp. nov., **Davis**, J. (1).

CAPRIMULGIDAE

Caprimulgus spp. oology, **Marinkelle** ; *C. longirostris* status in Brazil, **Sixk** (6) ; *C. ridgwayi* status in New Mexico, **Johnston & Hardy**.

Chordeiles acutipennis crissalis subsp. nov., **Miller**, A. H. (1) ; *C. minor* body temperature regulation of young, **Howell**.

Phalaenoptilus nuttallii experiments on torpidity, **Howell & Bartholomew**.

APODIFORMES

APODIDAE

Apus apus display, **Armstrong** (1) ; night habits, **Schmidt**, G. (1) ; Copulation in flight, **Mester** ; survey of nesting-sites, **Spencer**, K. G. (1) ; parasites on young, **Orden & Mooser** ; *A. melba* photos and habits, **Benz, Oberholzer & Arn-Willi** ; *A. pallidus* Italian breeding, **Neubaur & Trettau**.

Chaetura andrei and *C. cinereiventris* biological notes, **Sick** ; *C. andrei* observations in Brazil, **Sick** (4).

Collocalia spp. nest-collecting, **Chein Hoe** ; echolocation, **Medway** ; *C. brevirostris unicolor* acoustic orientation, **Novick** ; *C. fusciphaga* natural history, **Medway** (1).

Panyptila cayennensis nest, **Edwards**.

TROCHILIDAE

In the Antilles, **Berlitz** (3) ; Torpidity in cave-roosting spp., **French & Hodges** ; Liver lipids, **Hartman & Brownell** ; Brazilian studies, **Ruschi**.

Coeligena coeligena zuluagae subsp. nov. p. 121, **Phelps**.

Eriocnemis Alinae distribution, **Berlitz** (2).

Hylocharis leucotis life history, **Wagner**.

Selasphorus rufus feeding on walnut sap, **Wiegert**.

Trochilus polytmus breeding in captivity, **Reuther**.

COLIIFORMES

[No record]

TROGONIFORMES

TROGONIDAE

Apaloderma narina arcana subsp. nov. p. 163, **Clancey** (7).

Harpactes ardens lineatus subsp. nov. p. 276, **Rand & Rabov** (1) ; *H. erythroccephalus hodgsoni* validity question, **Biswas** (1).

Trogon rufus life history, **Skutch** (5) ; *T. violaceus* col. pl., **Eckelberry** (1).

CORACIIFORMES

Systematic notes on Palearctic spp., **Vaurie** (4).

ALCEDINIDAE

Variation in Australian spp., **Keast**.

Alcedo atthis conservation in Switzerland, **Ingold**.

Halycon albiventris South African races, **Clancey** (9).

MOMOTIDAE

Baryphthengus ruficapillus berlai subsp. nov., Stager.

Eumomota superciliosa note and coloured plate, Eckelberry.

MEROPIDAE

Structure of feathers, Auber.

Merops apiaster French note, David-Beaileau ; South African note, Jensen, L. ; breeding biology in the Camargue, Swift (1) ; *M. leschenaultii* analysis of pellets, Pagden ; *M. ornatus* note, McFarlane.

CORACIDAE

Coracias garrulus food note, Bernáth.

UPUPIDAE

Upupa epops German note, Bub, Geisler ; nest observations, Reuver.

BUCEROTIDAE

Rhinoplax vigil with deformed bill, Klaauw.

PICIFORMES

RAMPHASTIDAE

Natural history of the family, Boetticher ; Study of beaks, Lüdicke.

INDICATORIDAE

Cerophagy and its microbiological implications, Friedmann ; Egg-laying and other habits, Friedmann (1).

Melanomon zenkeri immature plumage, Serle (2).

PICIDAE

Evolution of foot, Bock & Miller ; Head-scratching habit, Kilham (1) ; Field studies and photos, Siemann ; *Picus* and *Dryocopus* systematic notes, Vaurie ; *Dendrocops* and *Picoides* systematic notes, Vaurie (1) (2).

†*Bathocephalus hyphalus* gen. et sp. nov. p. 362, Brodkorb (1).

Campetherabingoni South African races, Clancey (4).

Centurus spp. interspecific relations in Texas, Selander & Giller (2) ; *C. carolinus* behaviour note, Hauser ; *C. uropygialis* California record, Gardner.

Ceyx erithacus and *C. rufidorsus* integration of characters, Sims.

Colaptes auratus early reproductive behaviour, Kilham (5).

Dendrocopos leucotos French note, Ern ; *D. l. lilfordi* Italian note, Moltoni ; *D. major* predation in nest-boxes, Hickling & Ferguson-Lees ; killing nestling tits, Mountfort ; *D. medius* German observations, Buchheim & Gerber ; psychology and song, Feindt ; breeding biology, Feindt & Reblin ; *D. pubescens* harassed by *Melanerpes erythrocephalus*, Schwab & Monnie ; *D. syriacus* spreading in Hungary, Keve (1) ; *D. villosus* female drumming, Hailman (2).

Dendropicos fuscescens fresh vegetable food, Brooke.

Dryocopus martius status in British Isles, Fitter ; despoiling ants' nests, Géroudet (5) ; French note, Chauvancy ; *D. pileatus* behaviour study, Kilham (3) ; attacking snake, Nolan (1).

Geocolaptes olivaceus terrestris type locality, Winterbottom (10).

Jynx torquilla himalayana subsp. nov. p. 9, Vaurie (3).

Melanerpes erythrocephalus mutual tapping, Kilham ; bark-eating, Kilham (2).

Picoides arcticus nesting in the Cariboo, B.C., Erskine (1) ; in central Pennsylvania, Wood, M. ; *P. arcticus* and *P. tridactylus* invasion in New England 1956-57, West & Spiers ; *P. tridactylus* "anting", Meier.

Picus canus German study, Blume & Jung.

Polipicus ellioti gabela subsp. nov. p. 270, Rand & Taylor.

Sphyrapicus varius nuchalis California note, Davis, J. & B. S.

PASSERIFORMES

Structure of brain of Oscines, Nikitenko ; Arrangement of song-bird families, Storer.

PTEROPTOCHIDAE

Scytalopus indigoticus novacapitalis subsp. nov., Sick Bol. Mus. Nax. Zoo. 185 p. 14.

FURNARIIDAE

Asthenes cactorum sp. nov., Koepcke (2).

Pseudoseisura gutturalis ochroleuca subsp. nov. p. 42, Olrog.

Synallaxis zimmeri sp. nov., Koepcke.

DENDROCOLAPTIDAE

Anumbius annumbi machrisi subsp. nov., Stager.

PITTIDAE

Pitta sordida cucullata coloured plate, Reid-Henry.

TYRANNIDAE

Empidonax minimus territorial behaviour, Davis, D. E. (2).

Knipolegus subflammulatus sp. nov., Berlioz (1).

Muscicapa forficata in northern Minnesota, Gullion & Brown.

Pyrocephalus rubinus California nest note, Crouch.

Serpophaga griseiceps sp. nov., Berlioz (1).

Todirostrum albifacies sp. nov., Blake (2).

Tyrannus crassirostris in Arizona, Levy.

PIPRIDAE

Courtship display, Sick (2) (10).

Chiroxiphia pareola courtship behaviour, Gilliard (5).

Manacus vitellinus amitinus subsp. nov. p. 7, Wetmore (2).

Pipra erythrocephala flavissima subsp. nov., Junge & Mees Zool. Verh. Leiden No. 37 p. 93 ; *P. vilasboasi* and *P. obscura* spp. nov., Sick (1) (7) ; *P. vilasboasi* and other spp. habitat study, Sick (3).

MENURIDAE

Menurus victoriae dancing in a pool, Halafoff ; musical analysis of song, Halafoff (1).

ALAUDIDAE

Biology in Turkestan, Meklenburgtsev ; Biology and speciation in South African larks, White (1).

Alauda arvensis note, Lewis.

Calandrella cinerea puii in Japan, Sugizaki.

Certhilauda systematic position, Verheyen (10).

Eremopterix leucotis hoeschi subsp. nov., White.

Lullula arborea October singing, Bruns (2) ; territories study, Harrison, C. J. O. & Forster ; German study, Schumann (1).

Mirafra geographic limits, White (2) ; *M. africana bambae* subsp. nov., Serle ; *M. nigricans* races, Benson.

HIRUNDINIDAE

Delichon urbica nesting survey in Lancashire, Bouldin ; nesting inquiry, Carlisle ; nesting colonies in Finistère, Lebeurier.

Hirundo dimidiata notes, Schmidt, R. K. ; *H. neoxena* first breeding in New Zealand, Michie ; *H. rustica* following man, Alexander ; Belgian breeding study, Herroelen ; French notes, Labitte (2) ; fostering *Cuculus canorus*, Stel ; Chinese study, Wang ; *H. r. gutturalis* in Micronesia, Brandt.

Petrochelidon fulva nesting in building, Whitaker ; *P. pyrrhonota* mixed plumage types in Arizona colony, Jeter.

Progne spp. in northern South America, Eisenmann (1) ; *P. subis* leaf pulling habit, Raynor ; fostering, Southern, W. E. ; homing experiments, Southern, W. E. (1).

Riparia riparia burrow excavation and breeding cycle, Hickling (1).

MOTACILLIDAE

Anthus spp. ecology in Czechoslovakia, Klíma & Urbánek ; *A. cervinus* nest observations, Haftorn (2) ; Swiss note, Hertig ; migration, Ringleben (4) ; *A. leucophrus* and *A. vaalensis* status in Angola, Hall, B. P. (1) ; *A. novaeseelandiae* New Zealand note, Seeker ; *A. similis petricolus* range, Winterbottom (8).

Motacilla alba colour note, Fabricius ; note, Prünke ; *M. capensis* review of races, Winterbottom (1) ; *M. flava* races breeding in Northern Ireland, Ennis & Dick ; pre-nuptial migration on the equator, Marshall & Williams ; Swiss note, Mühlenthaler ; subsp. German notes, Moeller & Paskowski, Haas, Mester ; *M. f. flavissima* variations in a Surrey population, Milne ; *M. f. flavissima* × *M. f. flava* breeding pair, Swart.

CAMPOPHAGIDAE

Coracina striata boholensis subsp. nov. p. 276, Rand & Rabor (1).

PYCONOTIDAE

Hypsipetes everetti samarensis subsp. nov., Rand & Rabor.

Microscelis flavalis connectens note, Harrisson.

Pycnonotus barbatus and *P. nigricans* relationship, Irwin ; *P. cafer* × *P. leucogenys* hybridization, Sibley & Short (1) ; *P. nigricans superior* subsp. nov. p. 170, Clancey (6).

LANIIDAE

Eopsaltria georgiana extension of range, Ford & Teague.

Lanius collurio larder, Carlson ; French note, Erard ; food, Szlivka (1) ; *L. minor* life history in Hungary, Horváth (2) ; *L. senator* killing mouse, Marr.

Malaconotus sulfureopectus terminus subsp. nov. p. 169, Clancey (7).

Nicator chloris gularis nest and eggs, Long, R. C. ; *Oreocica gutturalis* call, Keep.

BOMBYCILLIDAE

Bombycilla garrulus French note, Brun, R. ; large numbers in New Mexico, Jensen, J. K. ; Italian records, 1959, Moltoni (4) ; in Yugoslavia, Rafajlović, Rucner (1).

CINCLIDAE

Cinclus cinclus Danish study, Preuss ; *C. mexicanus* life history in Montana, Bakus ; territorial habits and population density in Montana, Bakus (1) ; locomotion and other behaviour, Goodge.

TROGLODYTIDAE

Campylorhynchus brunneicapillus life history, Anderson, A. H. & A.

Henicorhina leucophrys sanluisensis subsp. nov. p. 124, Phelps.

Thryothorus ludovicianus in Colorado, Knorr ; *T. nigriceps odicus* subsp. nov. p. 14, Wetmore (2).

Troglodytes troglodytes salebrosus subsp. nov. p. 16, Burleigh.

MIMIDAE

Mimus polyglottos California records, Legg ; popular note, Gander ; California note, Stern.

Toxostoma rufum in San Diego, California, Morley.

PRUNELLIDAE

Prunella modularis note, Barthel & Creutz ; Polish nest observations, Noskiewicz ; German note, Prünke (1).

TURDIDAE

Hybrids bred in captivity, Dilger.

Cossypha natalensis races, Clancey (3) ; variation, Hall, B. P.

Cyanosylvia suecica at Spurn, Yorkshire, 1958, Skinner.

Erythacus rubecula two laying in one nest, Forges ; Irish population study, Jackson, R. D. ; male helping nest-construction, Olivier.

Erythropygia coryphaea races, Clancey (8).

Hylocichla fuscescens spreading in Long Island, N.Y., Raynor (1) ; *H. f. subpallida* subsp. nov., Burleigh & Duvall ; *H. minima* at Fair L., Devis, P. ; *H. ustulata swainsoni* in Ireland, Ruttledge (1).

Luscinia luscinia song, Stadler, H. ; *L. megarhynchos* German arrival dates 1948-57, Bruns & Nocke (2) ; population study in Hannover, Schumann ; *L. obscura* and *L. pectoralis* distinct species, Ripley (1) ; *L. svecica* European distribution, Mayaud ; nest sanitation experiments, Peiponen ; *L. s. cyanecula* German note, Conrads.

Oenanthe pleschanka first Hungarian record, Farkas.

Phoenicurus ochruros gibraltariensis arrival dates in Germany 1948-57, Bruns & Nocke ; analysis of food, Erard (1) ; *P. phoenicurus* pairing habits, Mühl & Gutsher ; Swedish migrations, Rendahl & Vestergren ; Rumanian food study, Gál & Györfi ; *P. p. samanensis* in France, Jones & Swift.

Siala sialis communal roosting in winter, Frazier & Nolan ; scarcity in Michigan, Wallace.

Turdus cardis anting behaviour, **Fushihara**; *T. chrysolaus* ground nesting, **Ide**; *T. ericetorum* Russian note on feeding habits, **Alexandrova**; *T. falklandii megallanicus* observations, **Valenzuela** (1); *T. iliacus* designation of neotype, **Opinion** 551; *T. leucomelas* observations at nest, **Haverschmidt** (2); *T. merula* eating snails, **Butlin**; origin of winter visitors to British Isles, **Goodacre**; eating marine worms, **Harkness**; hen killing young, **Harthan**; note on white plumage, **Rollin**; nesting on the ground, **Schöll**; nest note, **Richter, Wehner**; ecological study, **Snow**; *T. migratorius* taxonomy in Mexico, **Webster**, J. D. (2); *T. musicus* in Ross-shire, **Holt**; in New York, **Young**; *T. philomelos* individual and geographical variation, **Voous** (1).

TIMALIIDAE

- Acanthoptila [Turdoidea] nipalensis* field notes, **Proud**.
Boudleria punctata colony at Rotorua, **Roberts**, M. R.
Chamaea fasciata variation in feather pigments, **Bowers**; method of head scratching, **Brown**, J. L.
Dumetia hyperythra navarroi subsp. nov. p. 335, **Abdullah**.
Trochalopteron styani type note, **Berlioz** (5).
Turdoidea spp. communal nest-feeding, **Macdonald**, M.

SYLVIIDAE

- Acrocephalus palustris* Norwegian note, **Melchior Hansen**; *A. scirpaceus* early nesting, **Trelfa**.
Batis capensis South African races, **Clancey** (2).
Cisticola juncidis French note, **Roux**; *C. j. cisticola* biology, **Guichard** (2); *C. fulvicapilla ruficapilla* type locality, **Clancey** (10).
Hippolais languida note, **Kumerloeve** (1); *H. pallidus elaeica* Rumanian expansion, **Pascovschi & Nadra**.

Locustella fluviatilis German note, **Dancker**; German breeding observations, **Puchstein**; *L. luscinoides* south German study, **Kraus**; *L. naevia* photos and Swedish notes, **Eklund, K.**

Lusciniola melanopogon song, **Groebels** (1).

Melocichla mentalis incana subsp. nov., **Diessellhorst**; *M. m. luangwae* subsp. nov., **Benson** Bull. Brit. orn. Cl. 78 p. 91.

Phylloscopus bonelli in Cornwall, **King**, B. (1); first record in Netherlands, **Oord**; German note, **Paszkowski**; *P. collybita* arrival dates in Germany 1948-57, **Bruns & Nocke**; abnormal song, **Dove**; German popular account, **Linsenmaier**; *P. inornatus* in Netherlands, **Smit & Voous**; *P. proregulus* in Hungary, **Csóka**; in Kent, **Harle**; *P. sibilatrix* Swedish habitat study, **Tyler**, G.; *P. trivirgatus benguetensis* subsp. nov. p. 64, **Ripley & Rabot**.

Prinia flavicans races, **Irwin** (3).

Regulus calendula feeding on nectar, **Robertson**, J. McB.; *R. regulus* nesting in Hungary, **Horváth** (1); unusual nest-site, **Wootton**; *R. satrapa* colour of crown patches, **Simon**.

Sericornis magnirostris note, **Wakefield**.

Shoenicola brevirostris breeding note, **Took** (1).

Sylvia cantillans and *S. conspicillata* juvenile plumages, **Swift**; *S. communis* downwind immigration in Britain, **Richardson**; *S. deserticola* migration, **Jany**; *S.*

hortensis with dark eyes, **Fry**; *S. nosoria* in Finland, **Haartman** (2); *S. undata* in Netherlands, **Tjittes**.

Sylvietta rufescens and *S. whytii* are Sibling spp., **Irwin** (1).

MALURIDAE

- Malurus lamberti* note, **McColl**.

MUSCICAPIDAE

Variations and speciation in Australian Muscicapinae, **Keast** (1).

Bradornis infuscatus note, **Blignaut**.

Ficedula albicollis general biology, **Curio**; migration experiments, **Löhr** (1); polygamy and adoption, **Löhr** (2); Finnish study, **Tenvuo**; *F. hypoleuca* biology study, **Curio** (1); breeding biology, **Groebels** (2); gaping reaction of young to darkening, **Haartman** (1); *F. parva* song note, **Tekke**.

Machaerirhynchus flaviventer field notes, **Warham** (1).

Melaenornis ardesiaca East African note, **Williams**, J. G. (1).

Monarcha julianae sp. nov. p. 9, **Ripley** (2).

Muscicapa albicollis × *M. hypoleuca* hybrid, **Müller**; *M. hypoleuca* attachment to nest-sites, **Campbell**, B. (1); *M. parva* note, **Tetro**; song, **Aschenbrenner & Peters**; *M. striata* nabits, **Byrt**.

Myiarchus cinerascens in Alabama, **Williams**, L. E., Jr.

Parisoma subcaeruleum geographical variation, **Clancey** (8).

Petroica phoenicea note, **Watts**.

Smicromis brevirostris cairnsi subsp. nov., **Keast** Aust. J. Zool. 6 p. 156.

PARIDAE

German dispersal study, **Ringleben**.

Aegithalos caudatus feeding note, **Hall-Craggs**.

Anthoscopus minutus gigi subsp. nov., **Winterbottom** (3); *A. parvus* nest construction, **Dekeyser & Derivot**.

Panurus biarmicus biology, **Guichard** (3); *P. b. Kossuigii* subsp. nov. p. 197, **Kumerloeve**; *Panurus b. r.* Moravian biology, **Kux**.

Parus afer benguelae subsp. nov. p. 45, **Hall**, B. P. & **Taylor**; *P. afer* and *P. griseoventris* specific relationship, **Irwin** (2), **Hall & Taylor**; *P. ater* migration behaviour, **Gauss**; *P. atricapillus* note, **Bruns** (3); breeding note, **Berndt**; *P. bicolor* status in New York, **Eaton**; note, **Fleming**, R. C.; *P. caeruleus* feeding young *Certhia familiaris*, **Antoine**; winter observations, **Darlington**; roosting times, **Mackenzie**; triple nesting, **Mountfort** (1); breeding flight, **Schmidt**, C. & G.; *P. cristatus* general habits, **Campbell**; *P. major* Polish breeding study, **Bartkowiak**; note, **Bülow**; note, **Perrins** (1); nesting tragedy, **Radler**; unusually early breeding, **Zimmermann**; *P. m. artatus* economic value in Chinese orchards, **Cheng & Chien**; *P. rufescens caliginosus* subsp. nov., **Burleigh**.

Psaltriparus minimus incubation, **Phillips**, A. R. (1).

Remiz pendulinus Swiss note, **Hauri**.

CERTHIIDAE

Certhia brachydactyla and *C. familiaris* roosting habits, **Thielcke**; *C. familiaris* roosting habits, **Mackenzie** (1), **Roslage**.

DICAEIDAE

Pardalotus melanocephalus observations in Brisbane area,
Bell, H. L. (1).

NECTARINIIDAE

Anthreptes Pujoli sp. nov. p. 494, Berlitz.

Cyanomitra batesi Northern Rhodesia status, Williams,
J. G. (2).

Nectarinia asiatica study of nest construction, George,
J. ; *N. superba nigerrae* subsp. nov. p. 272, Rand &
Traylor.

ZOSTEROPIDAE

Zosterops palpebrosa review of races, Mishima.

MELIPHAGIDAE

Melidectes ecology of hybridization, Gilliard (4).

Meliphaga fasciogularis extension of range, Hindwood
(1).

EMBERIZIDAE

Calcarius lapponicus German note, Grossler.

Emberiza aureola photos at nest, Hosking ; *E. calandra* in Finland, Hakala ; *E. cia cia* breeding status in Hungary, Dandi ; breeding biology, Jakobs ; note, Schneider ; *E. hortulana* German study, Homann ; distribution and ecology, Kolsch ; *E. icterica* German note, Radtke ; German note, Scholze ; *E. leucocephala* French note, Hoffmann, L. ; in Sweden, Sollenberg ; *E. pusilla* winter biology, Meise & Detlefsen ; *E. schoeniclus* nest note, Lind (1).

Melospiza melodia at Fair Isle, new to Europe, Davis,
P. & Dennis.

THRAUPIDAE

Piranga bidentata moult, plumages and age groups,
Le Febvre & Warner.

Thraupis virens caesitia subsp. nov. p. 23, Wetmore
(2).

COEREBIDAE

Coereba flaveola general biology, Carvalho.

PARULIDAE

Dendroica caerulescens in South Dakota, Krause ;
D. chrysoparia note, Fritz ; *D. coronata* crossing Atlantic
on board ship, Tousey ; *D. discolor* invertebrate nest
associates, Nolan ; *D. palmarum* in Oklahoma, Tomer
(1).

Parula americana nest note, Monroe, M. B.

Seiurus aurocapillus territorial behaviour, Stenger &
Falls ; response to recorded song, Weeden & Falls.

VIREONIDAE

Vireo spp. interspecific pairing, Hauser (1) ; *V.
flavoviridis* in Florida, Monroe, B. L., Jr.

ICTERIDAE

†*Cremaster tytthus* gen. et sp. nov. p. 284, Brodkorb.
Euphagus cyanocephalus California note, Lindley.

Icterus galbula aviculture, Prestwich (1) ; *I. spurius*
California record, Johnson, M. E.

Molothrus ater post juvenal moult, Baird ; para-
sites nest containing young, Mumford ; *M. bonariensis*
biology, Sick (6).

Quiscalus lugubris race in Brazil, Novaes.

Sturnella spp. insecticide poisoning, Griffin (1).

FRINGILLIDAE

Serological map, Mainardi ; Phylogeny based on
immunological relationships, Mainardi (1).

Acanthis cannabina unusual breeding habitat, Orford.

Aimophila aestivalis ecology in Louisiana, Meanley
et. botteri vanhynei subsp. nov. pl 143, Webster (1).

Ammodramus savannarum study of song, Smith, R. L.

Amphispiza bilineata in Oregon, Du Bois.

Carduelis carduelis clutch size in Tasmania, Leicester ;
using tie-on labels as nest-material, Muir ; *C. flammea*
cabaret German note, Bauer, K. ; *C. serinus* note,
Barloy ; *C. spinus* Dutch note, Orden ; range in
Transbaikal, Izmailov & Prokof'ev ; German
breeding and migration note, Weber ; *Carpodacus*
purpureus pink colouration of females, Kennard.

Chloris chloris building in old nests of other spp.
new habit of eating *Daphne* berries, Petters,
son ; despoilation of *Daphne* in Ireland, Peterson
(1).

Coccothraustes coccothraustes Russian migrations, Fil-
onov.

Fringilla coelebs singing pattern, Barber ; injury-
feigning, Harwood ; factors influencing sexual behaviour,
Hinde (2) ; status in Belgium, Mostmans ;
parasites, Sokolov ; probable method of wind orientation,
Vleugel ; *F. coelebs* and *F. montifringilla* origin of
winter visitors to British Isles, Goodacre ; *F. monti-*
fringilla note, Hofstetter.

Guiraca caerulea nesting in Colorado, Stabler ; variation
in Mexican populations, Storer & Zimmerman.

Hesperiphona vespertina relation of oxygen consumption
to temperature, Dawson & Tordoff ; juveniles in
Massachusetts in July, Shaub.

Junco virginianus study of a winter society, Sabine.

Leucosticte tephrocotis atrata life history, French ;
distribution and migration, French (1).

Loxia curvirostra invasion into Germany, 1956, Bub,
Heft & Weber ; early breeding, Hitchcock, R. E. ;
French notes, Erard, Mayaud, Levêque ; breeding
cycle, Kempf ; Swiss nest in August, Marbot (1) ;
1958 invasion in Ireland, Rutledge (2) ; 1956 invasion
in Britain and 1957 breeding, Smith, F. R. ; *L.
leucoptera* and *Pinicola enucleator* irruptions in Sweden
1956-57, Markgren & Lundberg.

Petronia petronia distribution note, Laferrère ; *P.
supercilialis* type locality, Winterbottom (9).

Pipilo erythrourhynchus song variations, Borror ;
hybridization in Great Plains, Sibley & West.

Pyrhula pyrrhula food notes, Baron Geyr, Gwinner ;
family tradition and song development, Nicholai.

Rhodopechys sanguinea nest, Oller.

Serinus canaria serinus Rumanian status, Pascovschi ;
S. canarius song learning, Poulsen, H. ; *S. c. [domesticus]*
seasonal variation in clutch size and hatching success,
Hinde (1) ; *S. canarius* hildegardae subsp. nov. p.
273, Rand & Traylor ; *S. flaviventris quintoni* subsp.
nov. p. 318, Winterbottom.

Spizella arborea winter studies, Sargent ; *S. passerina*
unusual nest note, Walkinshaw ; songs, Borror (1).

Sporophila (? schistacea) subconcolor sp. nov., Berlitz
(4).

Tiaris bicolor breeding in captivity, **Goodwin**, R.

Zonotrichia capensis experimental light increments, **Miller**; reproduction cycles, **Miller** (2); *Z. leucophrys* development of nestling, **Banks**; *Z. l. gambelii* premigratory changes in weight and fat, **King**, J. R. & **Farner**; *Z. l. l.* × *Z. albicollis* hybrid, **Abbott**; *Z. querula* in Alaska, **Myres**.

Passerulus sandwichensis and salt-water, **Cade** & **Bartholomew**.

Passerella iliaca tarsal oiling behaviour, **Hailman** (7).

Passerina ciris breeding behaviour, **Parmelee**; *P. cyanea* × *P. amoena* hybridization, **Sibley** & **Short**.

ESTRILDIDAE

African forms, **Wolters**; general behaviour and biology, **Kunkel**.

PLOCEIDAE

Note on Indian breeding biology, **Ali**; Popular note on South African spp., **Clancey** (15); Classification based on behaviour, **Crook**; Notes on Ploceinae, **Moreau** (1); Systematics, **Moreau** (3).

Apalis ruddi distribution, **Clancey** (12).

Coliuspasser axillaris general biology, **Skead**.

Euplectes capensis races, **Winterbottom** (2).

Foudia spp. Mauritius note, **Newton**.

Hypargus niveoguttatus type locality, **Pinto** & **Lamm** (1).

Lonchura spp. behaviour notes, **Michaelis**; *L. flavigrymnna* aviculture, **Enehjelm**.

Ploceus cucullatus paroptus subsp. nov., **Clancey** (1); *P. golandi* specific status, **Clancey** & **Williams**; *P. intermedius beatyi* subsp. nov., **Taylor**; *P. velatus inustus* p. 173 and *P. v. caurinus* p. 177 subssp. nov., **Clancey** (7).

Quelea quelea control, **Frade**; problem in Mozambique, **Oliveira**; habits in Northern Rhodesia, **Stewart**, D. R. M.; gonadal cycle, **Wolfson** & **Winchester**; duration of regeneration period, **Disney**, **Loftus** & **Marschall**.

Taeniopygia castanotis breeding study in New South Wales, **Frith** & **Tilt**; social behaviour, **Immelman**; experiments on importance of plumage colour, **Immelman**; behaviour study, **Steiner**.

Uraeginthus angolensis biology and habits in captivity, **Goodwin**, D. (5).

SPERMESTIDAE

Ontogeny, **Ziswiller**.

PASSERIDAE

Passer ammodendri migration, **Spangenberg**; *P. diffusus* South African races, **Clancey** (8); *P. domesticus* 13 years old, **Dexter**; German study, **Geller**; race in Brenner Pass, **Schüll**; history of invasion of South America, **Sick** (9); ecology, **Spires**; population problems, **Summers-Smith** (1); history of spreading in Mexico, **Wagner** (2); south alpine race, **Wettstein**; *P. d. italiae* status, **Schweiger**; *P. griseus* Kenya race, **Clancey** (5); feeding observations, **Lamm**; *P. hispaniolensis* mass flights at Island of Rhodes, **Jenning**; *P. montanus* race in the Philippine Islands, **Parakes**.

STURNIDAE

Cinnyricinclus verreauxi breeding in captivity, **Cummings**.

Sturnus roseus French record, **Hüe**; *S. vulgaris* Mexico record, **Coffey**; territorial rank observations, **Davis**, D. E.; sex and age structure at roosts, **Davis**, D. E. (1); origin of winter visitors to British Isles, **Goodacre**

(2); bunching behaviour, **Hailman**; "wing-twitching" and insect capture, **Hailman** (1); mass death, **Lebedeva**; nesting in central California, **McMillan**; plague, **Manzoni**; Belgian study, **Piron**; nesting in California, **Reuther**, **Rainey** & **others**; nesting in San Joaquin valley, California, **Reuther** (1); roosting times, **Schoenmang** (1); arrives in San Diego, California, **Stott** (1); German migration study, **Vallert**; individual behaviour, **Walfecht**; South African note, **Winterbottom** (7); in California, **Yocom**; flock formation, **Zedler**; roosting habits, **Schaardt**, **Zedler** (1).

ORIOLIDAE

West African spp., **Marshall**, H.

Oriolus oriolus biology, **Klaas**.

DICRURIDAE

Chibia bracteata habits, **Cassels**.

Sphecotheres flaviventer habits, **Cassels**.

ARTAMIDAE

Artamus tenebrosus photo of roosting group, **Sharland**.

PICATHARTIDAE

Picathartes gymnocephalus note, **Conway**.

PTILONORHYNCHIDAE

Archboldia sanfordi courtship behaviour, **Gilliard** (2).

Chlamydornis spp. comparative analysis of courtship movements, **Gilliard** (3).

Prionodura newtoniana note, **Bravery**.

Ptilonorhynchus violaceus bower building and display, **Chaffer**.

PARADISAEIDAE

Paradisaea rubra note, **Steinbacher**, J.

CORVIDAE

Acoustic researches, **Gramet**; Biometry of some spp. in Hungary, **Hell** & **Sovis**; study of winter food in Slovakia, **Hell** & **Sovis** (1); Nidification, **Rustamov** & **Mustafaev**.

Cissolophia spp. sympatry, **Selander** & **Giller**.

Corvus corax biology in Poland, **Dobrowolski** & **others**; numbers and status in Yugoslavia, **Marčetić**; nest observations, **Sermet**; Swiss note, **Stadler**, E.; *C. corone* attacking young *Pica pica* in nest, **Butlin** (1); co-operative preening, **Summers-Smith**; *C. coronoides* attacking man, **Hobbs** (4); predation on wild rabbit, **Myktyowycz**, **Hesterman** & **Purchase**; *C. frugilegus* census of rookeries in Leeds area, 1955, **Jackson**, R. V.; food of nestlings, **Lockie**; French note, **Mouillard**; breeding season and clutch-size, **Owen**; nesting on the ground, **Scott**, R. E.; *†C. wetmorei* sp. nov. p. 363, **Brodkorb** (1).

Cyanocitta cristata attacks bat, **Clay**; eating termites **Lamore**.

Cyanocorax cyanus note, **Johnston**.

Garrulus glandarius migration flight in Hungary, **Barthos**; head-stabilization, **Forster**.

†*Henocitta brodkorbi* gen. et sp. nov., p. 6, **Holman**.

Kitta chinensis robinsoni note, **Allen**, F. G. H. (1).

Nucifraga caryocatactes macrorhynchos food recognition, **Jirsik** & **Toufar**; biology, **Kuznetsov**.

Pica pica in northern Canada, **Bryant**, J. E.; note **Chessex**.

Podoces panderi biology, **Lesnyak**.

Psilorhinus morio polymorphism, **Selander**.

Pyrrhocorax pyrrhocorax avian feeding notes, **Turner**.

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